

SOLAR

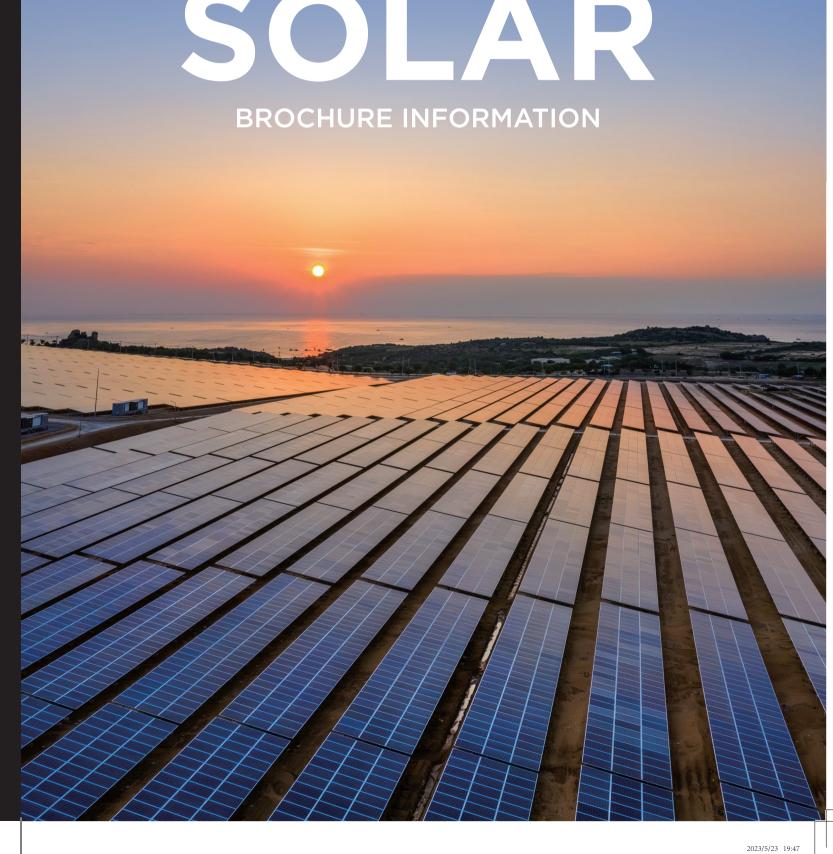


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Project Development and Construction

Basic Workflow

Site Survey - 2D Maps & 3D Models



Plan the mission through the DJI Pilot 2 app, or alternatively, use the live mission planning feature when collecting the data to facilitate the automated repetition of the mission.

Mission Planning



Data Collection

Collect the on-site data and transfer the files using Flighthub 2 or SD Card for processing



Data Processing

Process visual imagery to create 2D maps and 3D models in DJI Terra



Data Analysis

Complete measurements and volumetric calculations within DJI Terra or export files to 3rd party software for additional

Benefits of Utilizing Drones

Planning

- Capture imagery, videos, panoramas and create 2D Maps + 3D Models.
- Complete topographic modeling, shading assessments, and proximity analysis efficiently and safely.



Progress

- Collect data for consistent progress reporting and help identify issues early to make informed decisions.
- Fly the same missions automatically every day, week, or month.



Documentation

- Create a digital twin for quality control with as-builts along with verification of component delivery.
- Update GIS data with accurate 2D map.



Commissioning and O&M

Basic Workflow

Routine Inspection





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Flight Assessment

Verify proper environmental conditions including irradiance to ensure the quality of the data to be collected.



Plan and save automated flight missions in DJI Pilot 2 for the area of interest

Run automated mission to collect data capturing visual and thermal data at the same time

Data Collection



Real-time Fault Detection

Monitor live video feed from the drone with tools including side by side and temperature alarm



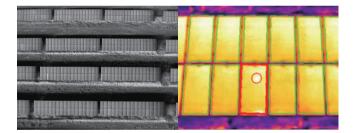
Data Analysis

Analyze data by importing individual thermal images into DJI Thermal Analysis Tool or uploading to a third party software provider

Benefits of Utilizing Drones

Aerial Thermal Imaging

- Detect inverter, module, string, and system faults.
- More scalable and efficient in comparison to I-V curve tracing.



Visual Data Collection

- Find major site issues such as vegetation management, poor drainage, and soil erosion.
- See cracks and defective trackers.



Ease of use

- Automated flight options to easily cover large areas over various terrain.
- · Easily repeat flights.



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