



DJI WEBINAR

CONDUCTING AUTONOMOUS INSPECTIONS WITH M3T AND VOLATEQ'S SOFTWARE SOLUTION

CSP CONCENTRATED SOLAR POWER:

Concentrated Sunlight + Turbine
+ Thermal Energy Storage (TES)
= Electricity

PV PHOTOVOLTAIC:

Sunlight = Electricity

STRONG POLICY GUIDANCE FOR SOLAR INDUSTRY

01

Favorable policy

On 18 May 2022, the European Commission published the REPowerEU package setting out the roadmap for ending reliance on imported Russian fossil fuels.

02

High investment enthusiasm

Many investment companies have injected capital into the photovoltaic industry, and the budget for asset operation and maintenance is sufficient

03

Fast-growing technology

Technological progress enables machines to gradually replace labor, improving efficiency and reducing risks

Market is potential

With the development of the industry, drone survey and inspection have broad prospects

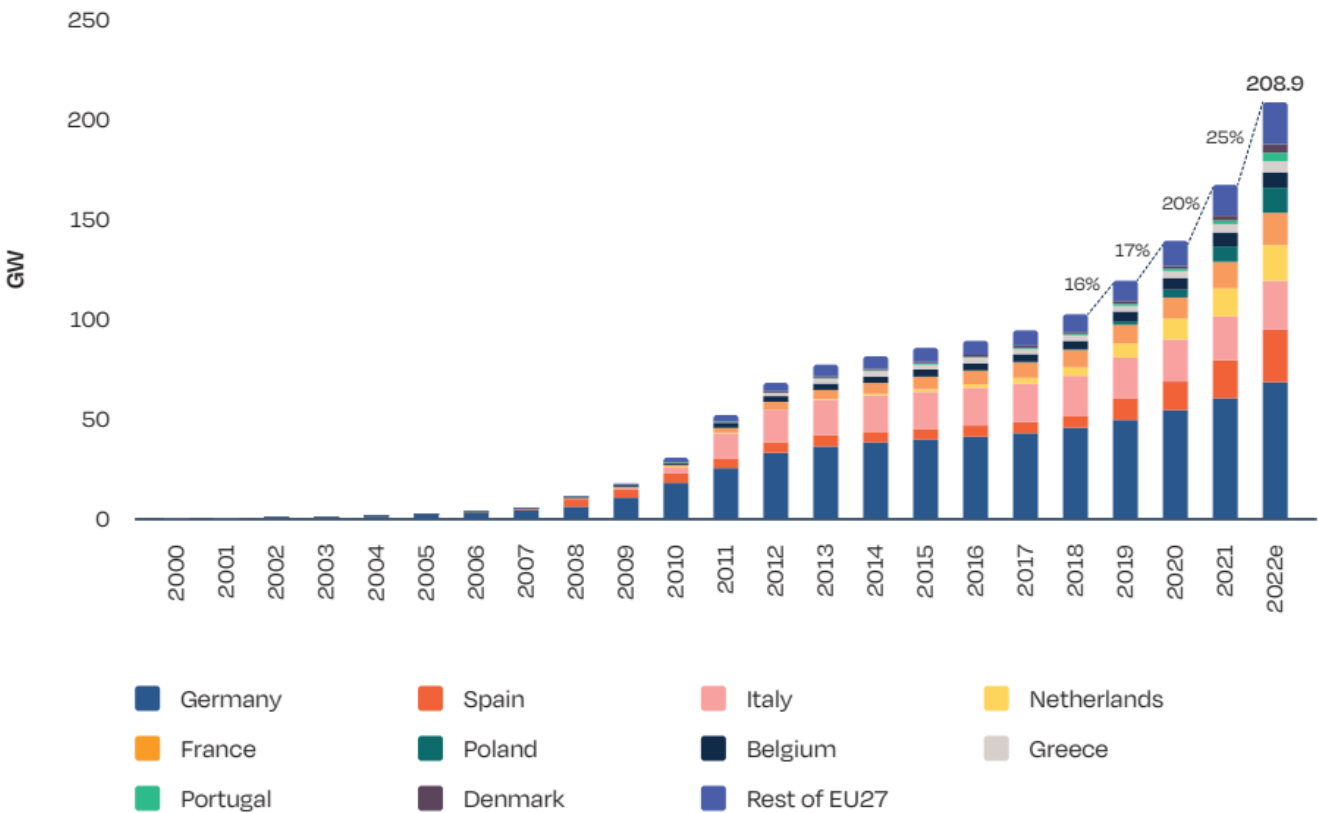
“By 2030 the share of wind and solar energy in power production capacities should double from the current level of 33% to 67%.

— Kadri Simson, EU Commissioner for Energy, European Union

Commission européenne
European Commission

DRONE INSPECTION MARKET HAS HUGE POTENTIAL

FIGURE 4 EU27 CUMULATIVE SOLAR PV INSTALLED CAPACITY 2000-2022



The EU's solar power generation fleet increased by 25% to

208.9GW

from 167.5 GW in 2021.

INDUSTRY CHALLENGE

RISKY

Due to the large coverage area, it is hard to increase inspection frequency, to find abnormalities in the earlier stage



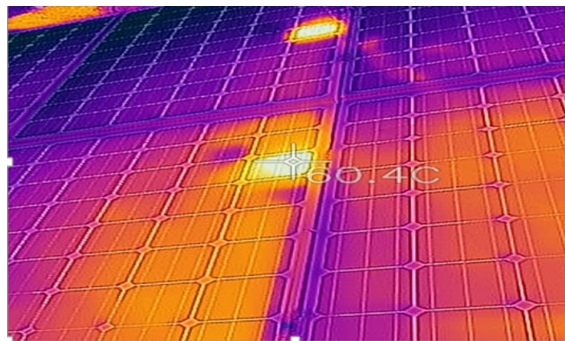
LOW EFFICIENCY

Manually inspection not takes more time as the area becoming larger, but also cost taken to cover every detail



HARD TO ACCESS

It is uneasy to access the remote site depends on the installation position, such mountain, river floating



NO ASSETS HMS

The traditional inspection is difficult to retain and view data, and it is hard to form a full life cycle asset analysis report

DRONE VALUE

Drone helps to increase efficiency and save cost

Comparing drone inspection time to relevant manual inspection across the 4 site.

97%

we saw **increase in inspection efficiency of**

Cost saving due to efficiency gain ranged from 1074\$ to 1717\$ per MW.

1254\$/MW

For average of

Cost saving.

	Site 1	Site 2	Site 3	Site 4
Size	74MW	30MW	21MW	12.5MW
Drone Inspection Time	24 hrs	6 hrs	7 hrs	4 hrs
Manual Inspection Time	778 hrs	293 hrs	208 hrs	195 hrs
Hazardous Man-hours Avoided	754 hrs	287 hrs	201 hrs	191 hrs
Increased Efficiency	97%	98%	97%	98%
Net Cost Savings	\$68,399	\$25,485	\$17,063	\$19,552

DRONE VALUE

Drone inspection bring O&M platform to advanced level

Traditional inspection



manual



handholding

- Risky
- Low-efficiency
- Hard to access
- No HMS

Digitalization 1.0



M3T

- Portable
- Friendly price
- accuracy



M350+H20T

- Multifunctional
- High Efficiency
- Strong performance

Digitalization 2.0



DOCK



M30T



ANALYSIS
SOFTWARE

- Automation
- 25min operation gap
- -35°C to 50°C
- Private Deployment

DJI dock enables

AUTOMATED and **DIGITAL**
O&M platform

TODAY'S WEBINAR



Webinar 

Solar Success Story: Conducting Autonomous Inspections with Mavic 3 Thermal and Volateq's software solution.

Performing inspection of Photovoltaic and Concentrating solar power plants for enhanced performance, safety, and efficiency.



September, 7th, 2023

11:00 CET+2



Virtual event

Register to attend



Irving Zhang

DJI
Solution Engineer



Christoph Prah

Volateq
Co-Founder



**Fabian
Wolfertstetter**

Volateq
Product Development
Manager



THANK YOU!



dji ENTERPRISE