



## SMART AUTONOMOUS DRONE SYSTEM

THE SOLAR INDUSTRY IS BOOMING AND EMERGING AS THE FASTEST GROWING SOURCE OF RENEWABLE ENERGY. EFFICIENCY PLAYS A CRUCIAL ROLE FOR THE SUSTENANCE OF A COMPANY IN THIS FIELD.

90%

SITE INSPECTION  
TIME SAVINGS

\$670K

ANNUAL OPERATION  
AND MAINTENANCE  
COST SAVINGS

1100  
MWH

ADDED ANNUAL  
PRODUCTION

1400

ADDITIONAL  
HOMESPOWERED  
PER YEAR

BASED ON ACTUAL DATA FOR A 50MW SOLAR FARM

### CONVENTIONAL SOLAR INSPECTION

- CARRIED OUT MANUALLY WHERE ELECTRICIANS CHECK MODULES FOR ELECTRICAL SOUNDNESS.
- PV MODULE SPECIALISTS CHECK EACH PANEL INDIVIDUALLY USING THERMAL CAMERAS
- TECHNICIANS RECORD ALL FAULTS.
- CAN TAKE 3 PEOPLE MORE THAN A MONTH TO COVER A SOLAR PLANT CONTAINING 200,000 PV MODULES
- OFTEN RESULTS IN INTERRUPTIONS IN POWER GENERATION.

### SOLAR INSPECTION WITH ROBOx

- PRE-PLANNED ROUTES COVERING ONE SECTION OF THE SOLAR FARM AT A TIME
- CAPTURES THERMAL IMAGES ALONG WITH GEOSPATIAL METADATA
- GENERATE ACTIONABLE REPORTS
- ANALYSE THE THERMAL IMAGES AND LOCATE FAULTS AUTOMATICALLY
- PERSISTENT AND AUTOMATIC OVERSIGHT OF THE FULL RANGE OF SOLAR PARK OPERATIONS