

CASE STUDY- POWER TRANSMISSION



“Intelligent Image Analysis”



Drone Support Services

Rawhide Intel Services Inc. provides image analysis and analytics of your assets using artificial intelligence and human engineering protocols to provide management, operational, maintenance, and risk information.

Rawhide Intel Services

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About Client:

International drone based managed solutions provider with offices multiple regions.

Background:

- Unable to meet the TAT in deliverables
- Due to shortage of staff
- Lack of analysis and report generation

How we helped the client?

The client approached us for image auditing and defect marking of the images captured via Drone

- The images from the Drone is transferred through FTP(File Transfer Protocol) for image auditing and defect making
- The team Audits Low Voltage (LV) Inspection poles, Transmission Network (High Voltage) and Distribution Network (Medium and Low Voltage)
- The team identifies normal components and those with defects
- Expertise finding different kinds of defects encountered during the image audit
- Defect List pale pillars, rotten/cracked poles, slanted pole, tree and bushes, etc. on the components
- Identify and mark lighting strokes, broken insulators, crumbling concrete or rusting metal structure
- Enables determine the level of existing damage or degradation rate
- Establish a detailed digital documentation of errors or defects using the data
- The final output report is certificated by the engineer
- This report helps the client to check for the power efficiency and plan for any repair or replacement
- The output of the PSD file along with the report is shared to the client in FTP

Components that we audit in each pole image:

- Pole
- Overhead Powerline
- Stay wire
- IPC Connector
- Blackbox
- Jumper
- Service Drop Conductor

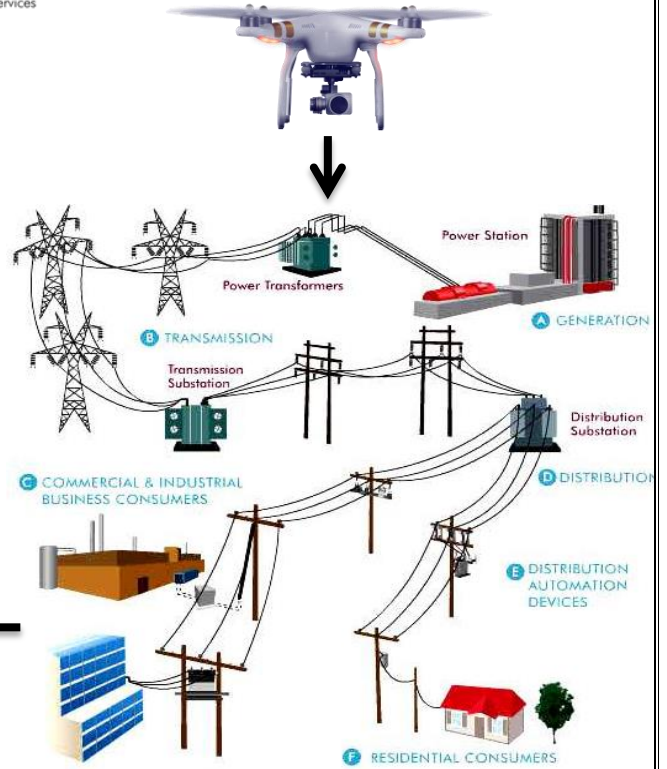


Image Audit



FTP



Defect Marking







Quality Check



Certified by Engineer

Generated Final Report

POWERLINE INSPECTION		CITY/STATE NAME	STREET NAME
INSPECTION TYPE	VISUAL INSPECTION	DATE	INSPECTOR
POLE NO.	IRB	POLE TYPE	VOLUME
COORDINATES		WYS	
FULL REPORT			
EQUIPMENT / EQUIPMENT			
Pole <input type="checkbox"/> No Label <input type="checkbox"/> Cracked/Rotten <input type="checkbox"/> Slanted Pole <input type="checkbox"/> Burnt/ White Discharge	Overhead Powerline <input type="checkbox"/> Mid-span sags <input type="checkbox"/> Sagging <input type="checkbox"/> Interference	Staywire <input type="checkbox"/> Sagging / Broken <input type="checkbox"/> Creepers <input type="checkbox"/> Rusted	IPC Connector <input type="checkbox"/> Burnt/ Carbonized <input type="checkbox"/> Black Box <input type="checkbox"/> Burnt/ White Discharge
Jumper <input type="checkbox"/> Not UV Sleeving <input type="checkbox"/> Burnt/ White Discharge	Service Drop Conductor <input type="checkbox"/> Sagging <input type="checkbox"/> Detached Wornpiece	Feeder Pillar <input type="checkbox"/> No Mesh <input type="checkbox"/> No Label <input type="checkbox"/> Rusted <input type="checkbox"/> No Padlock <input type="checkbox"/> No Bushes	
PHOTO: FRONT		PHOTO: REAR	
			

FTP

Output is delivered in FTP

Report is generated



Defects Types:



Crack On Pole



Jumper Sleeve



Powerline Interference



Scrambled Pole Number

End Benefits for the Client:

- The client receives the defects report along with the images
- 24x7 schedule ensures that work gets done during your “off” hours too
- Total Quality control promoting continuous improvements
- Quick on-site deployment of inspection systems
- Reduced downtime

Advantages:

- 100% Schedule Adherence
- Highly Secure
- Professional and qualified workforce

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