UAS IMAGING AND INSPECTION SERVICES FOR ENERGY MARKETS

SUCCESS IN THE ENERGY INDUSTRY IS MEASURED BY PERFORMANCE, PRODUCTION AND PROFITS.

OPERATIONAL EXCELLENCE
At Industrial Aerobotics we follow the “plan-execute-measure-correct” discipline, a continuous improvement philosophy that aids in sustaining gains in operational excellence. This discipline allows us to continually improve our expertise, skills, processes and procedures which in-turn provides direct dividends to our clients in the products we deliver.

CUSTOMIZED SOLUTIONS
We are a leader in the UAS Imaging and Inspection industry because we know that one size does not fit all. With our extensive fleet of UAV’s and Sensors we are able to gather the data needed, in the format needed, with the most cost effective and safe vehicle. This advantage allows us to provide exactly what the client requires for the lowest cost in the safest manner.

ACTIONABLE DATA DELIVERY
There is a growing number of UAS service providers that can perform flights and provide data to customers. However, Industrial Aerobotics has focused its efforts in the utility sector and its associated industries. With over 75 years of utility experience we understand your business, what normal operating conditions and anomalous operating conditions look like. Instead of thousands of images and hours of video - we provide you actionable reports identifying only those items that are of interest. This allows you to focus on your business and leave the flying, data gathering, and data analysis to us. In addition to the anomaly reports you will also receive the raw data captures to be used in other areas of your business where this media can provide further returns.

Managing UAV’s and drone flight operations is a specialized, involved endeavor. Vehicle design and maintenance, Payload configuration and operation, FAA coordination and approval, image handling and processing are just a few of the non-value add costs that can be avoided by using a DAAS provider.

Through advanced unmanned aerial systems we are able to help our clients design, build and maintain their energy asset portfolio in a more efficient, safe, and cost effective manner than traditional practices.
SAFETY
Safety of Crew, Vehicles, Persons and Assets on the ground are the key component of what we do. Rigorous safety protocols and procedures are ingrained into every phase of flight planning and execution.

PLANNING
Planning is the key component to successful operations. In general we spend 5 times more time in flight planning than in actual flight operations. This allows us to do it once and do it right.

OPERATIONS
Flight Operations are performed in a professional, controlled manner. All activities are performed with surgical precision while under constant control and monitoring of every aspect of the operation.

ANALYSIS
Data analysis is performed by industry experts who understand the underlying business practices of the energy industry. This allows us to provide precise, targeted, actionable data saving our clients from this non-value add work.

Electric Substations and Switch-yards are vital to the operation of the Bulk Electrical System (BES). Keeping these assets maintained at the highest level is crucial to not only the lives of millions, but the bottom line of the entity operating those assets. Whether it is the initial survey of a new site, construction monitoring of the site, thermal and optical imaging/modeling of the site for routine inspections, or decommissioning planning; Industrial Aerobotics can be there to provide high quality, accurate, repeatable data products.

High voltage Transmission infrastructure is the most dangerous, expensive, and outage causing electric utility assets. Usually stretching many miles of desolate or rugged terrain, miles from any eyes or ears to provide early warning of potential issues. At the highest levels of the grid, FERC regulations require that this infrastructure be actively inspected at least annually. Using UAS we can now safely and more cost effectively inspect these assets and provide detailed, actionable reports to be used to focus maintenance activities to reduce outages.

Generation plants are designed to be efficient and reliable. The trade off to this design feature is the expense and risk in maintaining them. With UAS activities we can now more quickly and safely perform inspections of generation plant components - but we can in most cases perform these inspections without requiring an outage to the plant. This provides numerous cost savings through man hours, safety events and lost generation revenue over traditional inspection methods.

As with power lines, Canals and Waterways stretch vasts areas of land and can be located in dangerous and hard to reach locations. With a UAS service provider the imaging and inspection activities can be planned, repeated and compared from period to period to provide trending details to be used in analysis and planning for future maintenance or enhancement activities.

DRIVING INNOVATION IN THE ENERGY INDUSTRY

SUBSTATIONS AND SWITCH-YARDS

TOWERS/POLES/LINES

GENERATION PLANTS

CANALS AND WATERWAYS

UAS SERVICES