Hai Phong DRONE Utilized iLotusLand Platform To Monitor 9 Surface Water and 6 AAQMS

TIME
2023

LOCATION
Hai Phong province - VietNam

CLIENT
The DONRE of Hai Phong

ABOUT THE CLIENT

Hai Phong Province, nestled in northern Vietnam, serves as a bustling economic center driven by its robust industrial activities. With over 14 industrial parks and more than 6,000 hectares, including those in the manufacturing, electronics, automotive, and shipbuilding sectors, the province stands as a pivotal hub for domestic and international commerce. Despite its industrial prowess, Hai Phong is committed to environmental protection, evident through initiatives such as water resources preservation and air quality management.

THE CHALLENGE

Rapid industrialization and urbanization contribute to pollution, with untreated wastewater and emissions from industries and vehicles being primary concerns. These issues endanger public health and ecosystem integrity, emphasizing the need for effective surface water and air quality monitoring. Moreover, apart from the hardware installation, customers also need a decent data acquisition system which connects and centralizes all the stations for efficient natural source management.

THE SOLUTION

In addition to supplying hardware instruments, we have effectively delivered our Envidata 18101 datalogger and iLotusLand platform to the Hai Phong Authority for Environment On Premise. The Envidata solution aids customers in centralizing data from 15 stations, encompassing multiple devices from various brands. By hosting and centralizing data on the customer's server, it facilitates remote monitoring and management, ensuring continuous surveillance of natural resources. Simultaneously, data remains secure and protected on their server, enhancing security measures.

Application	Surface Water	AAQMS
Number of stations	9	6
Measured parameters	Asen, COD, DO, Level, Amoni, TSS, Temp, pH	Radiation, CO, Wind Direction, Wind Speed, Rain, NO, NO2, NOx, O3, Pressure, PM10, PM2.5, RH, SO2, TSP, Temp
Instrument models	**WTW:** - 705 IQ SAC - ViSolid 705IQ SAC - ViSolid 700IQ - SensoLyt 700IQ - FDO 701 **MJK:** Shuttle Ultrasonic Level Transmitter **ChemScan:** Mini LowAm Analyzer **Systea:** Micromac Arsenic	**Envea:** AF22e, AC32e, CO12e, O342e, MP101M + OPM **Met One:** ES-642 **Lufft:** WS700
Datalogger model	Envidata 1801	
Software model	iLotusLand Platform for Environment (On-Premise)	

THE RESULT

"By the camera connection feature, our team now are enabled to view what is happening on-site in real time which helps us to faster detect any problems."
– Mr. Tung Nguyen, Operation Specialist

Our data acquisition system not only enables customers to remotely monitor all data through a unified dashboard but also facilitates efficient task completion. For instance, it expedites report generation within seconds and provides timely alerts in case of adverse events. Furthermore, it serves as a repository for environmental data, supporting scientific research aimed at natural preservation efforts.

"iLotusLand is an environmental IoT company offering data-driven environmental monitoring solutions for better decision-making. With our plug-and-play stations, we monitor a wide range of parameters in Wastewater, Surface Water, Groundwater, Drinking Water, CEMS, AAQMS, etc. And iLotusLand data analytics platform delivers actionable insights for government, industries, and communities. Our commitment is to be a key player in fostering a sustainable future through intelligent environmental monitoring solutions and data science."