iLotusLand Platform Monitors 372 Stations in Collaboration with Binh Duong Authority

TIME
2018

LOCATION
Binh Duong province - VietNam

CLIENT
DONRE Binh Duong Province

ABOUT THE CLIENT

Binh Duong province in southern Vietnam thrives as a bustling industrial hub, boasting over 30 industrial parks, possessing 12,670 hectares which has hundreds of factories in operation. This vibrant landscape hosts a diverse array of industries, including textiles, electronics, wood processing, and food manufacturing,... which leads it to a top contributor to Vietnam's GDP. That being said, it also comes with more concerns in the mission of environmental protection.
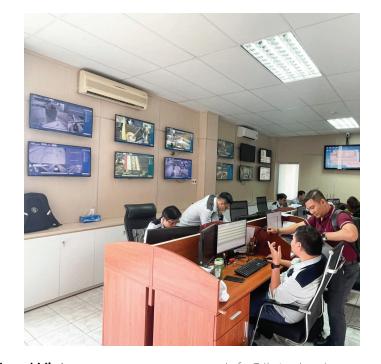

THE CHALLENGE

With the rapid development in industrial operation and the fast growth of installation for monitoring stations, its number has reached 372 stations including Waste Water, CEMS, Ground Water, Surface Water, and Hydrometeorology for both industry discharge management and natural resource management purposes. Binh Duong authority found it extremely hard and time-consuming to manage them effectively because all the stations are decentralized and not connected. As a result, these monitoring tasks were being done mainly manually and the source of data was considered to be "untrusted".

THE SOLUTION

Together with the release of data transmission regulations, iLotusLand offered to Binh Duong province the iLotusLand platform for Environment (On-Premise). It gives the management department of Binh Duong a great tool a complete the job for the following reasons. Firstly, it is installed in the authority's server, ensuring its data is well-controlled. Secondly, the platform is scalable and can handle an unlimited number of stations well. Thirdly, it offers a great deal of insightful functionalities that helps the officers conveniently manage everything remotely.

Application	Ground Water	Waste Water	CEMS	Surface Water	Hydrometeorology
Number of stations	**214**	**110**	**42**	**4**	**2**
Measured parameters	Flow, Level, Electrical Conductivity	pH, COD, TSS, Flow, Temp, Color	Flow, Temp, Pressure, O2, Dust, SO2, NOx, CO, Benzene, Toluene, Styrene	TSS, pH, Nitrate, DO, EC, Level	Humidity, Rain, Level, Air Temp, Water Temp
Software model	iLotusLand Platform for Environment (On-Premise)				

THE RESULT

"All the manual works before can be done now automatically by the iLotusLand platform, even the compliance report of 237 stations from industry can be auto completed now in less than 1 minute " – Mr. Son Pham.

The introduction of the iLotusLand platform for Environment (On-Premise) marks a notable stride in environmental protection efforts in Binh Duong province. All 372 monitoring stations, whether industry-owned or authority-invested, are now interconnected and centrally managed in the authority's control room. This enables officers to monitor and regulate industrial discharges remotely, facilitating more effective management. Moreover, the platform has become a revenue generator, yielding approximately 15 million USD in annual penalties from non-compliant industries. By promoting green growth and sustainability, it supports the development of all stakeholders involved.

" 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. "