iLotusLand Supports VSIP Binh Duong Industrial Parks In Growing Sustainably

TIME
2023

LOCATION
Binh Duong province - VietNam

CLIENT
VSIP BINH DUONG

ABOUT THE CLIENT

Vietnam Singapore Industrial Park (VSIP) developed collaboratively between Vietnam and Singapore, includes VSIP I, VSIP II, and VSIP IIA in Binh Duong province. VSIP I, covering 500 hectares, set the standard for modern industrial zones in Vietnam, attracting numerous multinational companies. Following its success, VSIP II expanded to 2,045 hectares to meet growing industrial demand. VSIP IIA, an extension of VSIP II, added another 1,100 hectares, enhancing the park's capacity with specialized zones and advanced facilities. These parks have collectively played a significant role in driving foreign direct investment, boosting local employment, and fostering industrial growth, thus contributing substantially to Vietnam's economic development.

THE CHALLENGE

VSIP operates three centralized wastewater treatment plants, presenting challenges in centralized monitoring for sustainable growth and compliance with environmental regulations enforced by authorities. Effective management necessitates robust monitoring systems to ensure adherence to stringent environmental standards and efficient wastewater treatment processes. This requires substantial technological investments and meticulous oversight to maintain environmental sustainability and meet regulatory requirements throughout the industrial park.

THE SOLUTION

We have implemented a centralized wastewater monitoring platform at VSIP, enabling real-time monitoring of key parameters including Ammonium, COD, Color, Flow, TSS, Temperature, and pH across all three plants. This initiative enhances operational efficiency by providing comprehensive data insights and alerts for proactive maintenance and regulatory compliance. By integrating advanced monitoring technologies, we support sustainable wastewater management practices and contribute to VSIP's environmental stewardship goals while ensuring continuous improvement in industrial wastewater treatment processes.

Application	WasteWater
Number of stations	3
Measured parameters	Ammonium, COD, Color, Flow, TSS, Temperature, and pH
Software model	iLotusLand Platform for Environment (On-Cloud)

THE RESULT

Since adopting our centralized wastewater monitoring platform at VSIP, there has been a noticeable improvement in operational efficiency and regulatory compliance. The platform allows real-time monitoring of essential parameters. This has led to optimized resource management, reduced operational costs, and enhanced environmental performance, aligning with VSIP's commitment to sustainable development and meeting stringent regulatory requirements effectively.

> " 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. "