iLotusLand Platform Helps To Monitor Centralized Wastewater Treatment Plants in AMATA Industrial Zones, Vietnam

TIME
2023

LOCATION
Dong Nai Provine- VietNam

CLIENT
AMATA Vietnam

ABOUT THE CLIENT

AMATA Vietnam (the sub-company of Amata Thailand) founded in 2012, is a holding company with the core businesses that are in the field of industrial estates, commercial, and residential development and operations. It currently has projects covering an area of 3,000 hectares. AMATA currently owns 7 industrial zones and urban development areas in its portfolio throughout Vietnam, attracting more than 5 billion USD in investment. Committed to sustainability and innovation, AMATA Vietnam plays a vital role in driving economic development and enhancing Vietnam's competitiveness in the global market.

THE CHALLENGE

As a leading industrial developer and its tenants increase in production, managing wastewater discharge becomes critical for AMATA Vietnam to prevent water pollution, align with local regulations, and also to protect its ecosystem. Also, because they are responsible for 2 industrial zones which are 1000 km far away from each other, they need to sync all data from different zones in different provinces into one platform for centralized management, plus to ensure the level of data transparency.

THE SOLUTION

We have provided AMATA with an integrated solution for monitoring their wastewater system, incorporating advanced hardware instruments, our state-of-the-art Envidata datalogger, and the iLotusLand monitoring platform. This comprehensive package has enhanced AMATA's operational efficiency, allowing them to monitor essential parameters in their two centralized wastewater treatment facilities effectively. Real-time data transmission to local authorities is facilitated, while remote data management is streamlined through our iLotusLand cloud-based platform. This ensures comprehensive monitoring and timely intervention if issues arise.

Application	Waste Water
Number of stations	2
Measured parameters	COD, TSS, Ammonium, pH, Flow, Temp, Color, Free Chlorine, Total Nitrogen

Instrument models	**WTW:**
	  - Monitor AMI Solicon 4
	  - Monitor AMI Turbiwell 7027
	  - Monitor AMI Trides
	Swan: Monitor AMI Trides
	Horiba: UV300
	Hach: EZ7705
	Endress Hauser:
	  - Turbimax CUS51D
	  - Orbipac CPF81D
	  - ISEmax CAS40D
	  - Prosonic S FMU90 + FDU90

Datalogger model	Envidata 1801
Software model	iLotusLand Platform for Environment (On-Cloud)

THE RESULT

"Now, we can monitor data from 2 industrial zones which are 1000+ km far away, helping the work of monitoring and reporting become easy then ever" – Mr. Long Tran, Manager

Our solution implementation not only aids AMATA Vietnam in meeting local regulatory requirements but also elevates its brand positioning, enabling it to attract more potential tenants and investors. With enhanced environmental management tools, AMATA Vietnam has elevated its ESG (Environmental, Social, and Governance) standards and sustainability development, which in turn benefits tenants, particularly in obtaining green production and export certifications.

"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."