

Hoa Phat Dung Quat remotely manages 18 environmental monitoring stations



TIME
2018



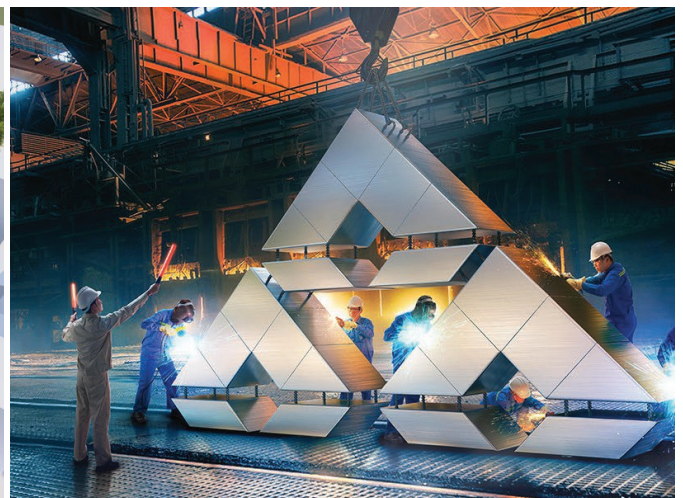
LOCATION
Quang Ngai province - VietNam



CLIENT
Hoa Phat Group

ABOUT THE CLIENT

Hoa Phat is Vietnam's leading industrial manufacturing group. Starting as a company specializing in trading construction machinery in August 1992, Hoa Phat gradually expanded into other sectors such as furniture, steel pipes, construction steel, refrigeration, real estate, and agriculture. Hoa Phat Group holds the number one market share in Vietnam for construction steel and steel pipes. With the business philosophy "Harmony for Development," Hoa Phat allocates hundreds of billions of VND annually to fulfill its corporate social responsibility to the community.



THE CHALLENGE

When mentioning the steel industry, it often brings to mind the "heaviness" of operations, business production involving thousands of workers, and enormous equipment. With the characteristic of being a deep-processing steel refining technology from ore, Hoa Phat Dung Quat Steel is concerned with balancing effective production activities and environmental protection, which is a crucial issue that requires an optimal solution. With a production capacity of 4 million tons per year, the plants have encountered unwanted incidents related to noise, emissions, and dust since they began operations. The company has installed 18 automated environmental monitoring systems within the factory and construction site areas. To ensure effective management, Hoa Phat Dung Quat needs tools to closely manage and monitor the data from these stations.



THE SOLUTION

Investing in technology and digital transformation, this enterprise has chosen to use the iLotusLand software to manage and remotely monitor 18 monitoring stations: Water (3), Raw Water (3), and Wastewater (12), contributing to enhancing production efficiency. The monitoring stations system will provide automated supervision. Monitoring data is recorded and transmitted to the central station in accordance with current legal regulations. The iLotusLand monitoring system is designed to meet international standards, providing accurate and timely data. This not only helps Hoa Phat Dung Quat effectively track and analyze environmental impacts but also proactively implement measures to mitigate environmental damage.

Application	Wastewater	Raw water	Water
Number of stations	12	3	3
Measured parameters	NOx, CO, SO2, Temp, O2, Follow, Total Dust, Pressure	Pump Flow, Turbidity, Salinity, Total Flow, pH, Daily Pump Flow	BOD, TSS, pH, Amoni, Temp, Flow in, Flow out, Total Flow
Software model	iLotusLand Platform for Environment (On-Premise)		



THE RESULT

With the iLotusLand solution, Hoa Phat Dung Quat Steel has implemented real-time automatic monitoring software that transparently displays measurement indices. The system automates data collection and analysis, saving time and manpower in environmental monitoring. Additionally, it helps the company proactively respond to situations and incidents, ensuring stringent quality control of the output waste. Hoa Phat also employs various measures to manage dust generated during production, such as electrostatic dust filters, fabric dust filters, wet dust filters, constructing barrier walls, and planting trees to prevent dust dispersion and noise reduction.

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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. ”