

Monitoring Stack Emission at 10 Distinct Sites in Luks Cement, Hue Province, Vietnam



TIME 2021



LOCATIONHue province - VietNam



CLIENTLuks Cement (Vietnam) Limited

ABOUT THE CLIENT

Founded in 1992, Luks Cement (Vietnam) made strategic investments in a cutting-edge plant in Hue province, boasting a 2.4 million tons/year capacity, and a sophisticated cement grinding station in Ninh Thuan with a 1 million tons/year capacity. Their product portfolio encompasses diverse clinker types, including CPC 50 and CHSR 40, and a selection of cement under the Kim Dinh brand, such as Pooc Lang, Pooc Lang blended, and Pooc Lang sulfate-resistant varieties. Committed to excellence, the company adheres to advanced quality management systems, receiving certifications from esteemed organizations. Recognized for quality, their products play a vital role in major national projects, contributing to the development of crucial infrastructure, seaports, hydropower, and thermal power initiatives, showcasing a dedication to top-tier quality, regulatory compliance, and national progress.





THE CHALLENGE

The cement complex is situated in Huong Tra district, Hue province which has a population of 72,677 people. As a result, the company has to manage to install the gas treatment and also be able to monitor the polluted parameters of SO2, Nox, CO, and Dust as required by the Vietnamese regulation to ensure the health of surrounding people. Additionally, to expand its business, the company needed to store all environmental data to apply for sustainable production and development standards.





THE SOLUTION

The cement complex is situated in Huong Tra district, Hue province which has a population of 72,677 people. As a result, the company has to manage to install the gas treatment and also be able to monitor the polluted parameters of SO2, Nox, CO, and Dust as required by the Vietnamese regulation to ensure the health of surrounding people. Additionally, to expand its business, the company needed to store all environmental data to apply for sustainable production and development standards.

Application	Continuous Emission Monitoring System (CEMS)
Number of stations	10
Measured parameters	Flow, Temp, O2, Dust, SO2, NOx, CO
Instrument models	CODEL: GCEM40, VCEM5100, DCEM2100 Endress + Hauser: TM131
Datalogger model	Envidata 1801
Software model	iLotusLand Platform for Environment (On-Cloud)



THE RESULT

"Thanks to the platform, we now can get all the readings from all the stations easily by the mobile application"

- Mr. Hien Mai – Manager

The installation of 10 Continuous Emissions Monitoring Systems (CEMS) in a cement plant ensures real-time, accurate data on pollutant emissions. This enhances environmental compliance, optimizing combustion and production processes to minimize the plant's environmental impact. Improved efficiency and proactive decision-making contribute to sustainability, fostering positive relationships with regulatory authorities and the local community while avoiding penalties and ensuring responsible environmental practices.

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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. */*