

Urban Noise Monitoring Network in Dubai

CASE STUDY: Autonomous Noise Monitoring with SV 200 and SvanNET for Smart Urban Management

Measurement Operator: Vibrocomp Middle East

Measurement Equipment:

SV 200 Noise Monitoring Station – Class 1 Sound Level Meter with Integrated Communication

SvanNET – Automatic Monitoring Services – Cloud platform for remote access, management, and data transfer

Challenge:

To establish a city-wide Noise Monitoring Network in Dubai, ensuring continuous and reliable environmental noise assessment in compliance with regulatory requirements. The system had to operate in harsh desert conditions, provide remote real-time access, and support automated reporting with minimal need for on-site maintenance.

Environmental noise monitoring is a critical tool for managing urban soundscapes and protecting public health. By collecting objective data on noise levels, cities can assess compliance with legal limits, plan urban development, and address community concerns. According to best practices, a professional noise monitoring network should ensure:

Continuous, unattended operation

Data integrity and security

Accurate, Class 1 compliant measurements

Remote access for configuration and data retrieval

The Dubai Project

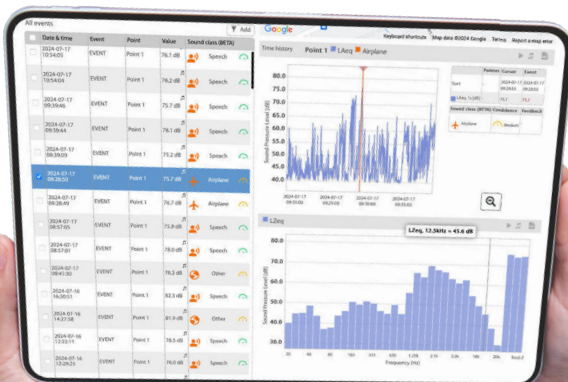
On behalf of Dubai Municipality, Vibrocomp ME supplied and commissioned 10 x **SV 200** Noise Monitoring Stations, strategically deployed across the Emirate. These stations form a permanent Noise Monitoring Network, enabling data-driven decisions and proactive management of noise-related issues.



Key Features of the Solution

The Dubai Noise Monitoring Network was designed with a focus on autonomy, reliability, and ease of use. The deployed solar-powered **SV 200** Noise Monitoring Stations ensure independent, long-term operation without the need for mains power, making them ideal for remote or hard-to-access locations.

Engineered for extreme environmental conditions, the **SV 200** withstands temperatures from -30°C to +60°C, operates in up to 100% humidity, and resists strong winds — all while delivering Class 1 measurement accuracy in line with international standards.



A key element of the solution is its integrated communication capability through **SvanNET**, the cloud-based Automatic Monitoring Service. This platform provides instant remote system management, seamless real-time data transfer, and even live audio streaming, supporting advanced diagnostics and ensuring that measurement data is always accessible when needed.

The lightweight, compact construction of the **SV 200** makes deployment fast and easy — a single person can install the station without specialized equipment, enabling rapid setup even in challenging environments.

With **SvanNET**, Dubai Municipality benefits from:

Web-based remote control of all monitoring stations

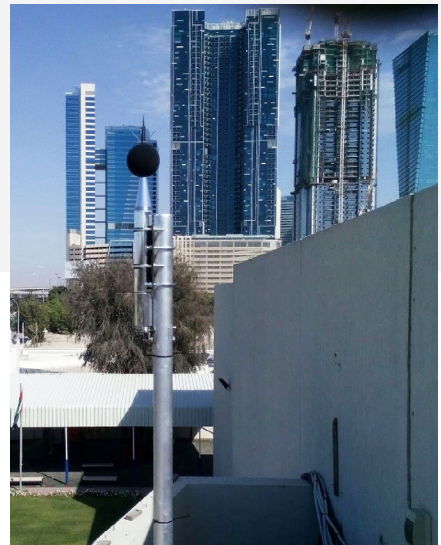
Real-time alerts and instant reporting capabilities

Automated data collection and secure cloud storage

Secure access to data from anywhere, anytime

"We are absolutely satisfied with the SV200 stations and SvanNET as well, which made communication, management of the stations and data transfer as easy as possible."

Dubai Municipality Representative



Conclusion

The project established a reliable, solar-powered noise monitoring network seamlessly integrated with **SvanNET**. This allowed Dubai Municipality to continuously monitor environmental noise with confidence in data accuracy, contributing to sustainable urban management.



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