Support Mission Critical Operation in Thermoelectric Power Plant

Case Study – Altai A3-Ei Deployment at Thermoelectric Power Plant



Overview

The thermoelectric power plant in Zapotlanejo, Mexico, faced significant challenges in establishing a reliable wireless network due to its limited infrastructure. The customer sought a solution that could provide long-range coverage while accommodating the operational constraints of the facility. Recognizing the need for robust connectivity, the plant required a wireless network that could seamlessly support daily operations for its staff, ensuring that communication and data transfer were efficient and uninterrupted.

To address these needs, Altai Technologies deployed its advanced A3-Ei access points, renowned for their ability to deliver extensive coverage and reliability in challenging environments. The integration of AltaiCare, cloud-based network management solution, further enhanced network management capabilities, providing centralized control without the need for additional hardware. This deployment not only fulfilled the immediate requirements of the plant but also demonstrated Altai's commitment to delivering scalable and effective wireless solutions tailored to specific industry needs.

Business Challenges

- Over 250x200m sq. area is required to cover whole farmland
- Limited wireless infrastructure
- No downtime allowed for mission critical operation

Customer Name:
TERMOELECTRICA DE CICLO COMBINADO

Deployment Location:
Zapotlanejo, Mexico

Application:
Wi-Fi Network for Energy Operation in Mexico

Products used:
Altai A3-Ei and AltaiCare

Result:
A thermoelectric power plant in Zapotlanejo, Mexico faced significant challenges in establishing a reliable wireless network due to the limited infrastructure. To enhance the connectivity of the power plant, Altai's local partner, Syscom Mexico deployed 5 Altai A3-Ei Access Points, which provide extensive coverage for over 250m x 200m sq. area.

Leveraging Altai Super WiFi technology, reliable internet access is ensured across challenging environments. The power plant is able to be covered with a zero-downtime network., facilitating the mission-critical operation. The solution resulted in efficient communication, increased productivity through real-time monitoring and transforming plant connectivity.

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Solution

With the expertise and support of Syscom Mexico, five Altai A3-Ei access points were strategically deployed to maximize coverage and reliability across the plant. These access points were complemented by AltaiCare management platform, allowing for streamlined monitoring and control of the network.





Benefits

1. **Enhanced Operational Support:** The Wi-Fi solution facilitates daily operations within the thermoelectric plant, providing reliable connectivity for staff.
2. **Improved Communication:** Seamless connectivity enhances communication among staff, leading to better coordination and efficiency.
3. **Increased Productivity:** Reliable network access allows employees to perform their tasks more effectively, minimizing downtime.
4. **Robustness:** The long-range capabilities ensure consistent performance even in challenging environments.



About Altai

Altai Technologies is a global leader in providing industrial-grade Wi-Fi solutions with a strong presence in over 100 countries. With our brand, Altai Super WiFi™, we specialize in designing, developing, and marketing cutting-edge Wi-Fi products and technologies specifically tailored for industrial applications.

Altai Super WiFi™ offers fully seamless, secured, and resilient wireless solutions that empower businesses to enhance productivity and operational efficiency throughout the industrial digitalization and automation journey. For over a decade, we have earned the trust of hundreds of industrial customers worldwide. Our cutting-edge wireless technologies are deployed in container ports, airports, warehouses, smart manufacturing facilities, mining, oil and gas sites, power plants, and more.

Discover the comprehensive range of Altai Super WiFi™ solutions which are meticulously designed to meet the rigorous demands of industries with mission-critical needs, please visit our official website at www.altaitechnologies.com.

Contact Us

Headquarters
Unit 209, 2/F, Lakeside 2, 10 Science Park West Avenue, HK Science Park, Shatin, Hong Kong

Phone: +852 3758 6000
Fax: +852 2607 4021
Email: info@altaitechnologies.com
Website: www.altaitechnologies.com

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