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Case Study:

Deployment of Nozomi Network Monitoring Tools in Renewable Energy

Deploying network monitoring tools in a greenfield renewable energy site presents unique challenges—especially when coordination is required across multiple stakeholders including the EPC, an offshore NOC/SOC, and a design firm that lacks deployment capabilities. In this case, Armexa was tasked with validating and redesigning a flawed monitoring architecture to ensure optimal sensor placement and system performance.

Through on-site walkdowns, real-time documentation updates, and leveraging deep ICS cybersecurity and deployment expertise, the team delivered a superior solution that outperformed the original design, reduced costs, and enhanced reliability.

By combining agile field execution with disciplined documentation and stakeholder alignment, Armexa delivers rapid, high-quality outcomes that minimize delays, reduce costs, and maintain cybersecurity integrity throughout the deployment lifecycle.

NOZOMI NETWORKS

Industry:
Renewable Energy

Location:
North America

Armexa Services Provided:

- Design Validation
- Deployment Redesign
- Optimal Deployment

Our Solution

Design Validation: Performed site walkdown to evaluate suggested deployment architecture, confirm optimal suggested sensor placement. Redlined inconsistencies and poor design practices.

Deployment Redesign: Rapidly produced and updated design documentation in the field for asset owner approval and real-time adjustments.

Optimal Deployment: Leveraged prior experience and updated documentation to deliver a more effective monitoring solution than the competitor's original design.

Outcome & Impact

- **Improved Performance & Reliability:** Delivering a better-engineered monitoring solution enhanced detection accuracy, reduced false positives, and ensured consistent system uptime.
- **Cost & Resource Efficiency:** Correcting the competitor's flawed design minimized rework, saving the client time, deployment costs, and future maintenance overhead

Conclusion

This deployment exemplifies how strategic design validation and agile field execution can overcome resource gaps and coordination challenges in complex renewable energy environments. By correcting flawed plans and delivering a superior monitoring architecture, Armexa not only improved system performance and reliability but also demonstrated its commitment to cost-effective, cybersecurity-conscious solutions. The success of this project reinforces the value of experienced deployment teams in bridging the gap between design intent and operational excellence.

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Ready to talk all things cybersecurity?
Contact us at info@armexa.com

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