Case Study

Public Transit | North America | Transportation

Reducing Risks of a Battery-Powered Transit Fleet

Strengthening safety to transform electic transit

The challenge

One of the nation's largest East Coast transit agencies sought to safely integrate a new fleet of battery electric buses and charging infrastructure into its existing operations. Recognizing the safety, security, maintenance and emergency response considerations associated with the technology, the agency engaged dss+ to assess potential risks and develop controls to support the safe and effective integration of the new assets.

The approach

dss+ developed a rigorous, risk-based safety and security program to support the procurement and integration of battery electric buses and charging infrastructure. Through design reviews and comprehensive hazard analysis, the team identified and prioritized risks, developed appropriate controls and established a robust verification process to help ensure safety, regulatory and operational requirements were addressed before the new technology entered service.

Impact on the ground

Established a cross-functional risk committee	Completed hazard and fire/life safety assessments	Prioritized controls for safe technology integration

The inflection point

"This project allowed us to bring a risk-based approach to a complex technology transition, helping identify potential hazards early and strengthen the controls needed for safe integration."

Mark Davis
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