



A Roadmap for Transitioning to Electric Waste Collection Fleets

Presented by John Carlton, PE, BCEE

FDR

The future of waste collection fleets is electric!



Electric collection trucks are where electric buses were 7 years ago



Significant growth is expected





Have you or are you considering a transition to electric collection trucks?

Why Electric Collection Trucks?



Promotes cleaner and healthier air in communities



Supports local climate action goals

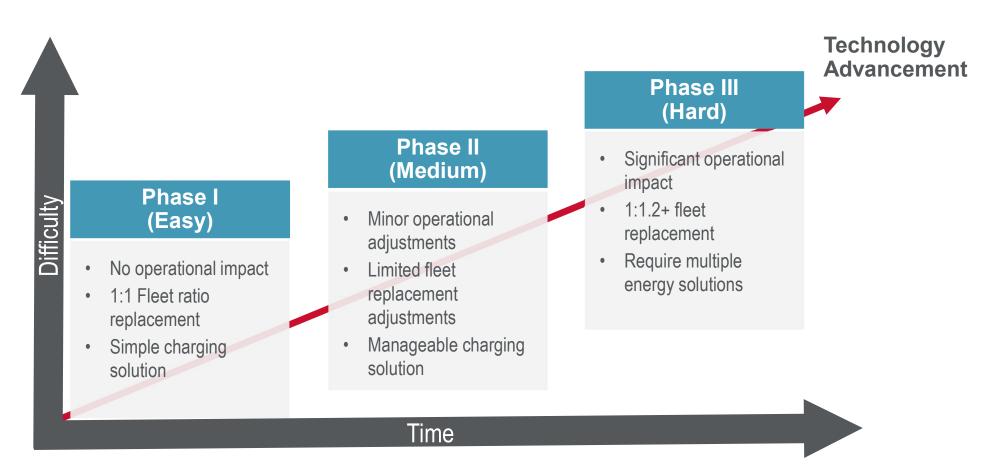


Reduces noise pollution

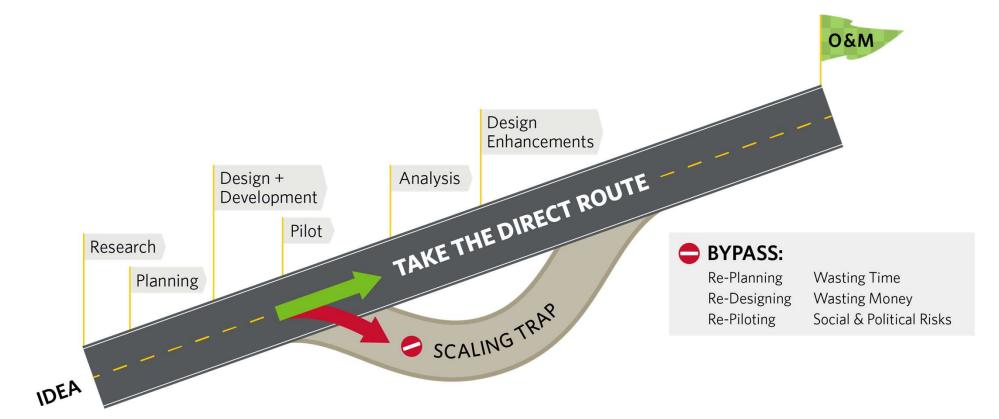


Requires lower maintenance

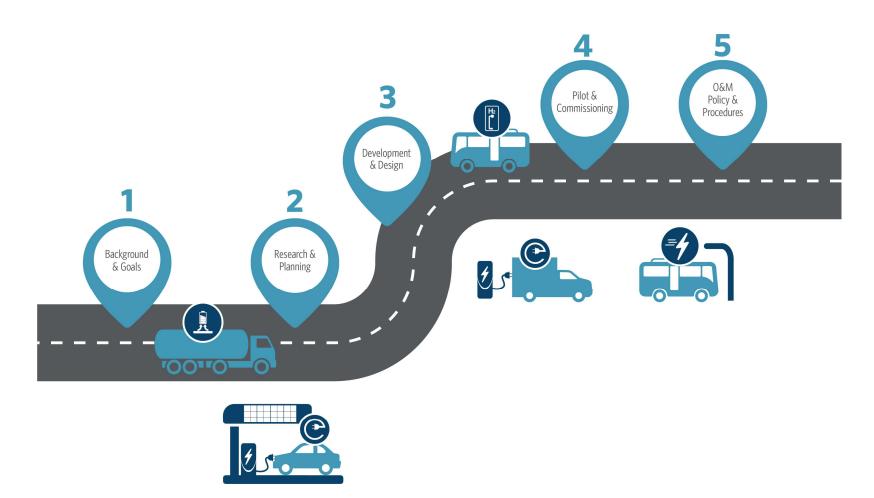
Challenges of Transitioning



Avoid the Scaling Trap



Development: Roadmap to Transition



Factors for a Clear Roadmap

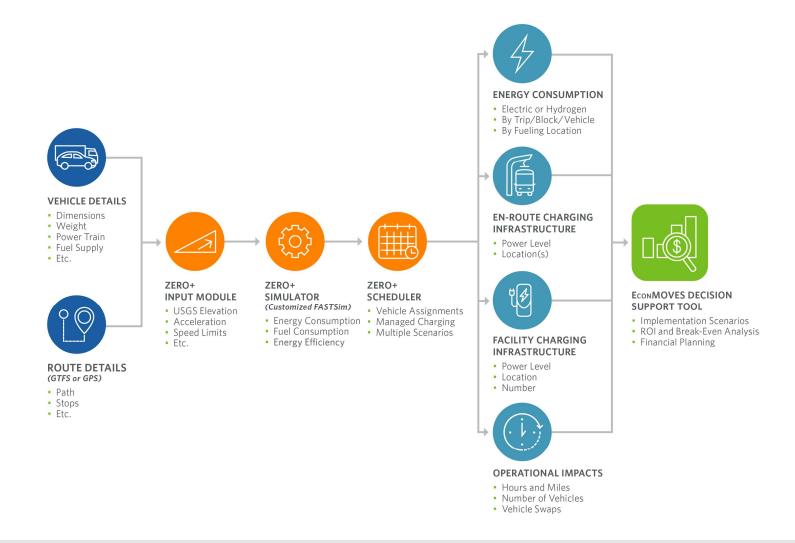


The Right Tools Make a Difference

Zero+
Fleet Optimization Tool

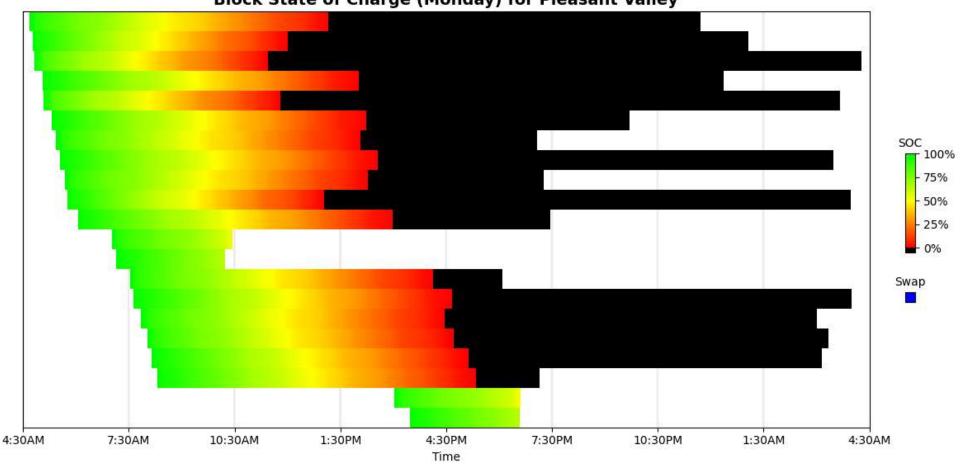
EconMOVES



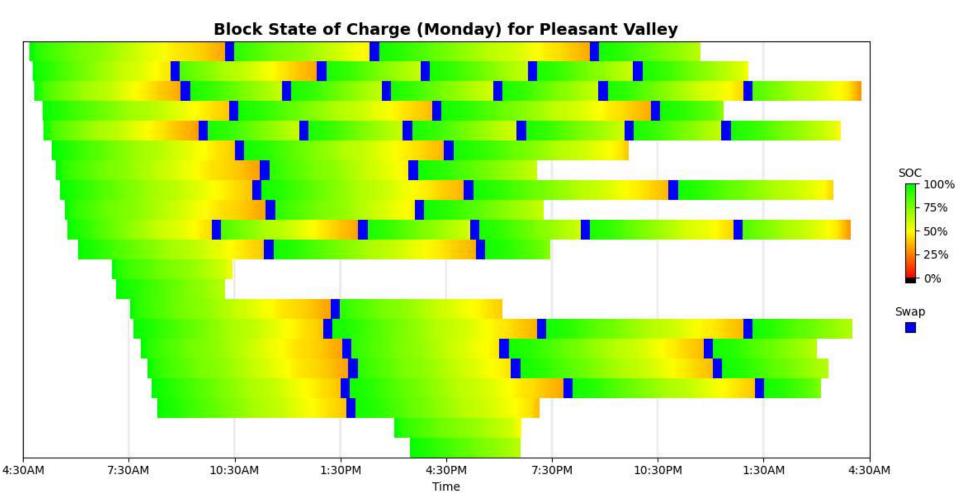


HDR Zero+ Fleet Optimization

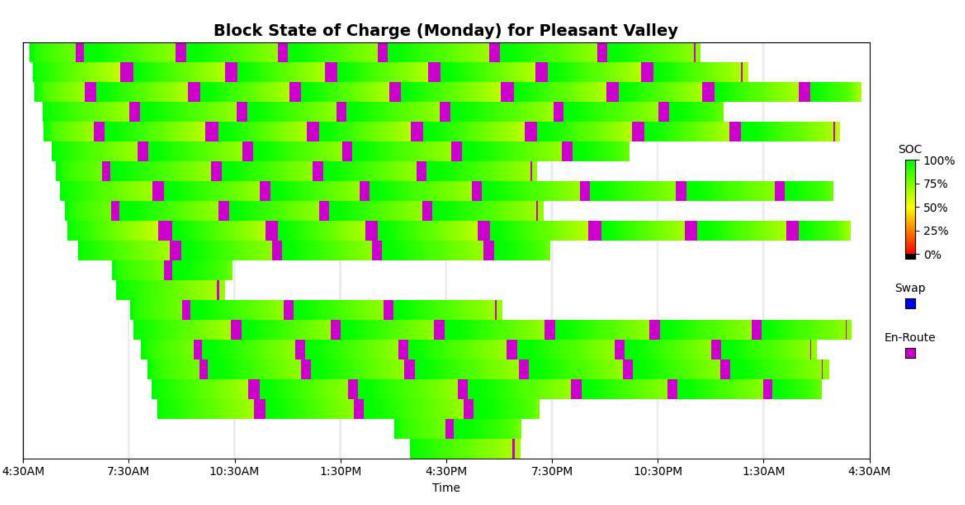




HDR Zero+ Fleet Optimization

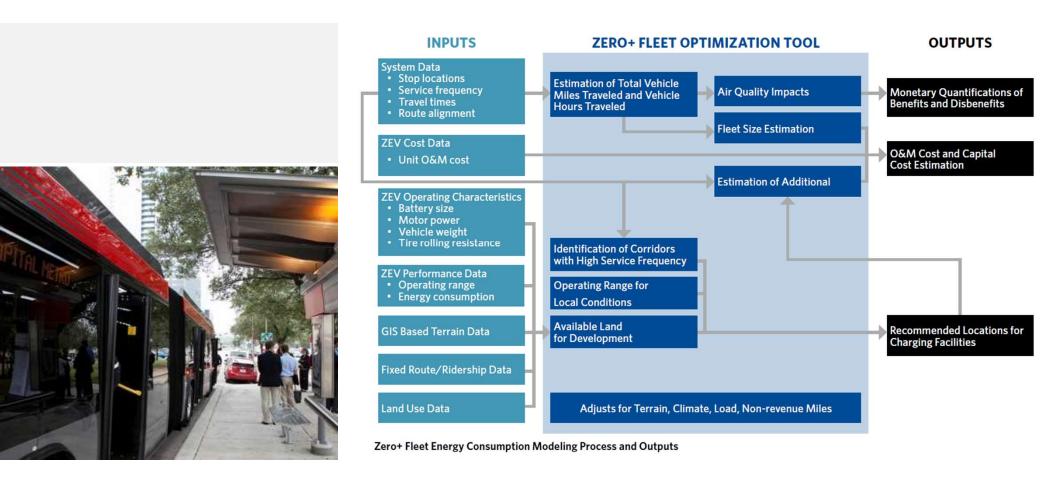


HDR Zero+ Fleet Optimization



HDR EconMOVES





Expo & Pleasant Valley Route Power Demand Analysis

Capital Metropolitan Transportation Authority | Austin, TX





Bus Facility Programming & Planning

VIA | San Antonio, TX

In Conclusion...



Plan from the very start to avoid pitfalls of the scaling trap



Functional analysis and incremental decision-making will lead to success



Well-thought-out roadmap leads to the best technical and financial outcomes

Questions?





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