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The Two-Echelon Capacitated Electric Vehicle Routing Problem with Battery Swapping Stations: Formulation and Efficient Methodology

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**Highlights**

- We propose a two-echelon electric vehicle routing problem with BSSs.
- We give a mixed integer linear programming model for this problem.
- We propose an efficient and reliable hybrid algorithm to solve the problem.
- We analyze the efficiency of vehicle emission reduction.

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