



## CASE STUDY

# How **AI-Driven Vehicle Deployment Boosted EV Utilization from 54% to 78%** for a Leading IT Services Giant

Smart Vehicle Deployment. Lower Emissions. Higher ROI on EV Investments.

**Routematic**

## About the Client

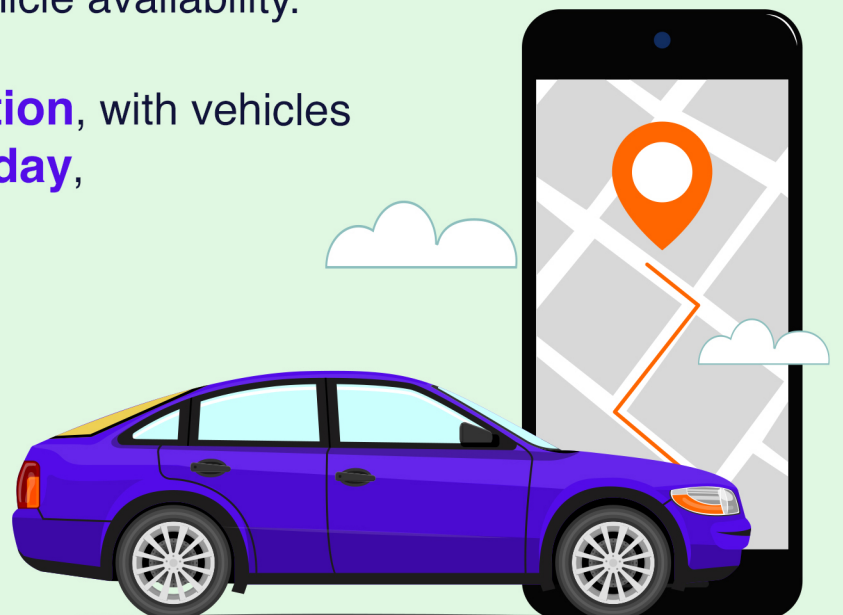
- Global IT Leader
- 3 Offices in One City
- 24/7, Multi-Shift Workforce
- 500 Daily Transport Users
- 450 Trips a Day



## The Problem

Despite the sustainability push, the company faced **serious operational roadblocks**:

- Only **54% of trips** could be grouped for EVs using the vendor's traditional route planning approach.
- Heavy reliance on buffer vehicles to hedge delays led to **idle time** and **rising costs**.
- **Range anxiety** and **poor charging management** reduced vehicle availability.
- **Inadequate vehicle rotation**, with vehicles averaging just **4 trips per day**, limited EV coverage.



# The Routematic Solution

Routematic deployed its advanced **vehicle deployment engine** while cutting operational waste through 3 core innovations:



## AI-Driven Trip Chaining

- Linked back-to-back trips across offices, **raising trips per EV from 4 to 4.8 per day.**



## Real-Time Adaptive Deployment

- **Dynamically adjusted routes** and vehicle route plans based on **delays, range, and charging availability**, eliminating the need for excess buffer vehicles.



## Predictive Learning & Optimization

- Leveraged **historical and live data** to forecast demand and continually refine deployment.



# The Impact

Here's what the client achieved by replacing manual deployment with Routematic's AI-powered engine:

**78%** EV Coverage Boosted

Increased from 54%, exceeding the 75% sustainability goal.

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**105** Additional EV Trips per Day

Optimized without adding extra vehicles.

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**20%** Higher Trips per Vehicle

Increased from 4 to 4.8 trips daily.

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**10%** Lower Operational Costs

Achieved by reducing buffer fleet requirement.

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**2** CPOs Improved Battery Management & Downtime

Through integration with city Charge Point Operators (Tvesas & Evnnovator).



# With Us, Achieve Much More Than Just ESG Goals

We can turn **ambitious EV adoption goals** into **operational success stories**. If you want to **maximize EV utilization, reduce costs, and future-proof employee transportation**, let's talk.



## Contact Us

Transform your transport operations and help the planet on the way.



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