

Energizing Your EV Fleet: On-Route (OR) vs. Depot Charging

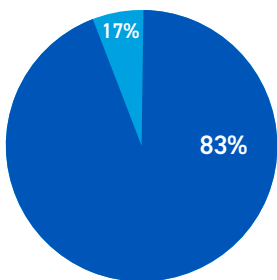
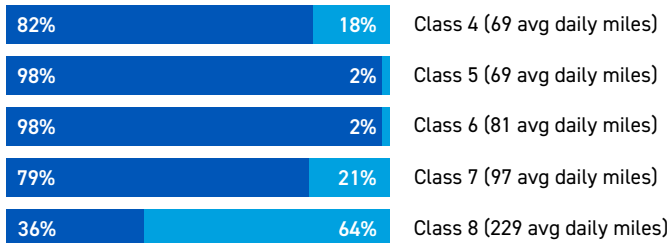
Why On-Route Charging Doesn't Stack Up for Every EV Fleet

Fleets that invest in depot charging now stand to save big over the coming decades. What's your plan?

Roughly 20 million medium-duty vehicles in Classes 3–6 are driven less than 200 miles per day – making them prime candidates not only for electrification but also for depot charging.¹ With so many fleet vehicles set to electrify, smart choices around EV charging infrastructure are critical for efficient fleet operations.

Lack of Public Charging Infrastructure and Fleet Duty Cycles Point the Way to Depot Charging

Comparing Energy Infrastructure Opportunities: Average daily miles for medium-duty vehicles (123 miles/day, according to white paper based on NPTC data) compared to the 200-mile threshold for depot charging.



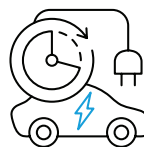
Class 4-8 Primary Charging Use Cases: 83% of semis in Classes 4–8 operate efficiently with depot charging vs. the 17% that require OR charging.

■ Depot Charging (Electrada) ■ On-Route Charging

Benefits of Depot Charging Over OR



Cost Savings: A depot setup moves charging outside price peak hours, saving between 30% and 50% in electricity costs.² Additionally, depot-charged fleets forego the cost of using public Level 3 fast chargers – 30 to 48 cents per kWh vs. under 13 cents per kWh for depot-based commercial electricity.^{3,4}



Time Efficiency: Level 3 chargers take between 20 minutes to an hour to charge a battery to 80%. At an average of \$43 per hour in driver labor, fleet operators are bearing the cost of driver time while the vehicle is charging. Depot charging takes place while vehicles are idle, recapturing that time for drivers to stay on the road.

Grid Impact: With depot charging, you can source electricity during off-peak times and store it for later usage, easing grid strain and reducing CO2 emissions. This further reduces your charging costs and eases the impact on the electrical grid compared to OR charging, which is on-demand by nature.

Readily Available Power: Depots are already connected to the grid, and that power can easily be extended to enable EV charging.

Performance Guarantees: OR charging is notoriously unreliable, and you can't predict station downtimes. Depot charging delivers much more consistent charging uptime.

Depot vs. OR in a nutshell

OR Charging	Depot Charging
Costly	Cost-effective
Time consuming	Time saving
Less reliable	Up to 99%+ uptime
Adds strain to the electrical grid	Moves power demand to off-peak times

With so many clear benefits, what's holding fleets back from investing in depot charging? Primarily, upfront costs. **But this barrier disappears entirely with 360 Charging-as-a-Service (CaaS).**

Electrada's 360 CaaS: The Complete Electric Fuel Solution for Depot Charging

Why Electrada?

Depot Charging Made Easy: Electrada's **360 CaaS** solution removes the complexity and upfront costs from your depot charging investment. We design, build, and manage every aspect of your EV charging infrastructure, tailored to your fleet's needs. You don't spend a dime to get online, and the details of planning and running a depot charging operation are on our back, not yours. Start saving on fuel cost per mile from day one.

Custom Tailored Solutions: Electrada can develop an EV charging solution for any fleet — of any size. **360 CaaS** is a complete electric fuel solution because it adapts to your fleet's use cases and duty cycles. We'll ensure you have enough power for your entire fleet, customized per charging depot site location, based on your timelines and needs.

360 CAAS: MAXIMIZE PERFORMANCE, MINIMIZE RISK



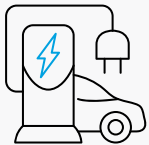
100% Capitalized

Upfront **capital expenses for 360 CaaS** are fully covered, from design and build to operations and maintenance. You only pay one predictable price for charging — and it's guaranteed for the life of your contract.



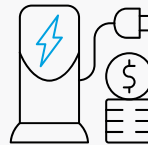
Battery Health

While less than often assumed, fast charging can still negatively impact battery health. By **stretching out charging times** while vehicles are idle, you can extend your fleet's battery life to its fullest.



Guaranteed Performance

Thanks to our performance-backed SLA and **99% uptime guarantee**, you never have to wonder if and when you can charge.



Cost Efficiency

Building, maintaining, and managing your own charging depot adds unforeseen expenses. With predictable pricing, you can **save up to 70%** in lifetime costs compared to doing it yourself.

ARE YOU IN THE 83% THAT CAN BENEFIT FROM DEPOT CHARGING?

With **360 CaaS**, Electrada makes the choice of depot vs. OR charging perfectly clear. Get in touch with an Electrada solutions expert to learn how you can start energizing your fleet today.

Get started at [electrada.com](https://www.electrada.com) →

Footnotes:

¹ Electrada. "A White Paper on Fleet Electrification."

² Rocky Mountain Institute. "Cost-Effectively Transitioning Fleets to EVs without Disrupting Operations."

³ The Washington Post. "Is it cheaper to refuel your EV battery or gas tank? We did the math in all 50 states."

⁴ U.S. Energy Information Administration. "Electric Power Monthly."