



Case Study

# Amazon

As companies expand their climate ambitions, more are adding transportation-related emissions reduction commitments to their organizational goals. To help stakeholders understand how large U.S.-based companies are thinking about reducing their transportation emissions, David Gardiner and Associates (DGA) developed a Corporate Electric Vehicle (EV) Commitments Tracker, which examines companies' commitments to reduce transportation emissions; adopt EVs, including medium- and heavy-duty (MHD) vehicles; and implement EV charging solutions.

In addition to the Tracker, DGA is publishing a series of case studies highlighting companies whose commitments to and innovation in reducing their transportation emissions can help inform other organizations looking to decarbonize.

Amazon, a global e-commerce company, is committed to reducing emissions across their transportation-dependent operations, with a goal to achieve net-zero carbon by 2040. To accomplish this, the company plans to power its operations with 100% renewable electricity by 2025 and deliver 50% of Amazon shipments with net-zero carbon by 2030. Its "Shipment Zero" goal requires that packages be delivered by EVs or other alternative delivery solutions.[1]

*"The scale and speed at which we're trying to do this requires a lot of invention, testing and learning, and a completely new playbook."*

*Ross Rachey, Amazon's Director of Global Fleets and Products*

Amazon has made significant commitments in its effort to build “the most sustainable transportation fleet in the world.”[2] Amazon already operates thousands of EVs worldwide, delivering more than 20 million packages by EV to customers across North America and Europe in 2020.[3] Amazon continues to grow its EV fleet: in 2020, the company ordered 100,000 custom electric delivery vehicles from Rivian. The first of these vehicles hit the road in Los Angeles in 2021 with the rest set to be deployed by 2030. In 2020, Amazon ordered battery electric trucks from Lion Electric and expanded its European fleet with an order for 1,800 electric vans from Mercedes-Benz. Amazon has explored other low-carbon transportation options as well and began testing hydrogen-powered trucks in 2021.[4]

As Amazon continues to expand its EV fleet, investments in the charging infrastructure required to support EVs will grow likewise. Amazon is retrofitting both its own and its partners’ facilities across North America and Europe with thousands of charging stations. Additionally, any new delivery station built will be designed to meet the needs of the growing electric delivery fleet.[5] For long-haul transit, in addition to network efficiency improvements, Amazon is investing in and testing sustainable innovations in freight and



Map of Amazon's July 2022 Electric Van Rollout [6]

air transport. [7] In 2020, Amazon Air secured six million gallons of sustainable aviation fuel which has reduced carbon emissions from flights up to 20% compared to standard aviation fuel.[8]

Amazon is investing significantly in electrifying transportation to meet its decarbonization goals. This case shows how companies whose operations center on transportation are actively seeking low-carbon options to achieve their climate ambitions.

This case study is a part of the Corporate EV Commitments Tracker. You can explore the full tracker and its findings [here](#).

[1] About Amazon. “Sustainable Operations.” Accessed July 25, 2022. <https://sustainability.aboutamazon.com/environment/sustainable-operations>.

[2] Coyle, Meg. “Go behind the Scenes as Amazon Develops a New Electric Vehicle.” About Amazon [blog], February 4, 2022. <https://www.aboutamazon.com/news/sustainability/go-behind-the-scenes-as-amazon-develops-a-new-electric-vehicle>.

[3] About Amazon. “Sustainable Operations.”

[4] About Amazon. “Sustainable Transportation.” Accessed July 25, 2022. <https://sustainability.aboutamazon.com/environment/sustainable-operations/transportation>.

[5] About Amazon. “Sustainable Transportation.”

[6] Rivera, Mark. “Amazon Releases Fleet of Rivian All-Electric Delivery Trucks Made in Illinois.” Abc7chicago [blog], July 21, 2022. <https://abc7chicago.com/amazon-deliveries-rivian-zero-carbon/12065412/>.

[7] About Amazon. “Sustainable Transportation.”

[8] About Amazon. “Promoting a More Sustainable Future through Amazon Air,” July 8, 2020. <https://www.aboutamazon.com/news/operations/promoting-a-more-sustainable-future-through-amazon-air>.