

# New electric vehicle charging network being built by major automakers could lure more buyers to EVs

July 26 2023, by Tom Krisher

---



Thomas Miller, Western EV fleet sales manager for Mitsubishi Motors North America, demonstrates a fast-charger connection on a Mitsubishi i car Friday, March 16, 2012 in Central Point, Ore. The second-largest electric vehicle fast-charging network, Electrify America, with 800 direct-current fast-charging stations and more than 3,600 plugs nationwide, said Wednesday, July 26, 2023, it will work to add Tesla's connector to existing and future chargers by 2025.

Credit: AP Photo/Jeff Barnard, File

The announcement Wednesday that seven major automakers are joining to build a large North American electric vehicle charging network should pull people off the sidelines to at least consider shifting away from gas-powered vehicles.

That's how auto industry analysts see the move by General Motors, BMW, Honda, Hyundai, Kia, Mercedes and Stellantis to build a network of fast-chargers that will rival Tesla's and will nearly double the number of quick-charging plugs in the U.S. and Canada.

"Anything that gets more—and especially more reliable chargers—out there will be a benefit to anybody considering EVs," said Sam Abuelsamid, an e-mobility analyst for Guidehouse Insights. "It should help sway some people who were on the fence about buying an EV."

The companies said they will share in a multibillion-dollar investment to build "high power" charging stations with at least 30,000 plugs in urban areas and along travel corridors by 2030.

The dramatic move is intended to allay fears that chargers won't be available for long-distance travel.

The companies wouldn't disclose the exact number of charging stations or financial details of the joint venture they're forming to put the network in place. They said the first of the U.S. chargers will be ready by next summer.



A charging station is shown at the Sandia Peak Inn along Albuquerque's Route 66, in N.M., Wednesday, July 13, 2016. The second-largest electric vehicle fast-charging network, Electrify America, with 800 direct-current fast-charging stations and more than 3,600 plugs nationwide, said Wednesday, July 26, 2023, it will work to add Tesla's connector to existing and future chargers by 2025.

Credit: AP Photo/Russell Contreras, File

The automakers said in a joint statement Wednesday that they want to build the "leading network" of reliable high-powered charging stations in North America.

"The parties have agreed not to disclose specific investment numbers at this time, but the seven founding automakers intend to work as equals to



ensure the success of the joint venture," the companies said in a written statement answering questions from The Associated Press.

There are currently just under 8,700 direct-current fast-charging stations in the U.S. and Canada with nearly 36,000 charging plugs, according to the U.S. Department of Energy. Even with 30,000 more plugs, the U.S. will need far more chargers. The National Renewable Energy Laboratory estimates that 182,000 fast chargers will be needed by 2030.

Fast chargers can get a battery to 80% of its capacity in 20 minutes to one hour, making them optimal for travel corridors and in some cases comparable to the time it takes to fill a car with gasoline. They're much quicker than 240-volt "Level 2" chargers that can take hours to get a battery to a full charge.

The new network is expected to have 10 to 20 charging plugs per station, meaning there would be a minimum of 1,500 stations and a maximum of about 3,000.

Tesla's network, with the largest number of fast chargers in North America, has 2,050 stations and more than 22,000 plugs in the U.S. and Canada, the DOE says.



An electric vehicle charges on a publicly accessible pole-mounted charger in Los Angeles on Oct. 4, 2022. The second-largest electric vehicle fast-charging network, Electrify America, with 800 direct-current fast-charging stations and more than 3,600 plugs nationwide, said Wednesday, July 26, 2023, it will work to add Tesla's connector to existing and future chargers by 2025. Credit: AP Photo/Eugene Garcia, File

The network formed by the automakers would be public and open to all electric vehicle owners. It will have connectors for both Tesla's North American Charging Standard plugs as well as the Combined Charging System plugs used by other automakers.

The network will speed up electric vehicle sales in North America by getting people who now are reading stories about holes in the charging network that prevent long-distance travel, said Stephanie Brinley, an analyst with S&P Global Mobility.

"It's stopping them even from exploring what EV life is like," Brinley said. The announcement of the network "is giving them confidence that this is going to work out."

The automakers said they would use renewable energy as much as possible to power the chargers, and they will be in convenient locations with canopies and amenities such as restrooms, food service and stores nearby.

Brinley said a good charging experience is key to earning the trust of potential EV buyers. "The reality is consumers want to feel comfortable when they charge," she said.

The current charging network, being built by a hodgepodge of companies, is growing but is often unreliable or in poor locations. This has prompted Ford, [General Motors](#) and others to sign agreements with Tesla to give their EVs access to its much larger network of fast chargers. Automakers also have announced they're building their own networks, but Brinley said the moves weren't enough.



Tesla Supercharger is seen in Rolling Meadows, Ill., Monday, Jan. 30, 2023. The second-largest electric vehicle fast-charging network, Electrify America, with 800 direct-current fast-charging stations and more than 3,600 plugs nationwide, said Wednesday, July 26, 2023, it will work to add Tesla's connector to existing and future chargers by 2025. Credit: AP Photo/Nam Y. Huh, File

Multiple [polls show that the lack of available chargers](#) is among the top reasons why people won't consider EVs.

The automakers will seek to use U.S. government funds from the bipartisan infrastructure law to help pay for the network.

The administration of President Joe Biden attributed the announcement to his policies aimed at creating a U.S. electric vehicle manufacturing



base and tax credits to increase sales in an effort to fight climate change.

"We are seeing tremendous momentum as private companies, cities, states, and utilities join forces behind our shared goal of convenient, reliable charging that reaches every pocket of America," said Energy Secretary Jennifer Granholm.

In the U.S., electric vehicle sales continued to rise during the first half of the year to more than 557,000 vehicles, or 7.2% of all new vehicle sales. The EV share of the market last year was 5.8% with just over 807,000 sales. Industry analysts predict continued growth in EV sales for the next decade or more.

But in June, EV inventories began to grow as factories started cranking out new models. Not including Tesla and Rivian, dealers had enough EV supply on hand for 103 days of sales, according to Cox Automotive. But there was only a 53 day supply of all vehicles, indicating much lower inventories of combustion engine vehicles.

Still, Cox is forecasting that EV sales will grow to over 1 million for the first time this year. The consulting firm LMC Automotive predicts that EVs will hit 14.4% of the market in 2025, and be close to 40% by 2030.

© 2023 The Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed without permission.

Citation: New electric vehicle charging network being built by major automakers could lure more buyers to EVs (2023, July 26) retrieved 11 May 2024 from <https://techxplore.com/news/2023-07-major-automakers-electric-vehicle-network.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--