

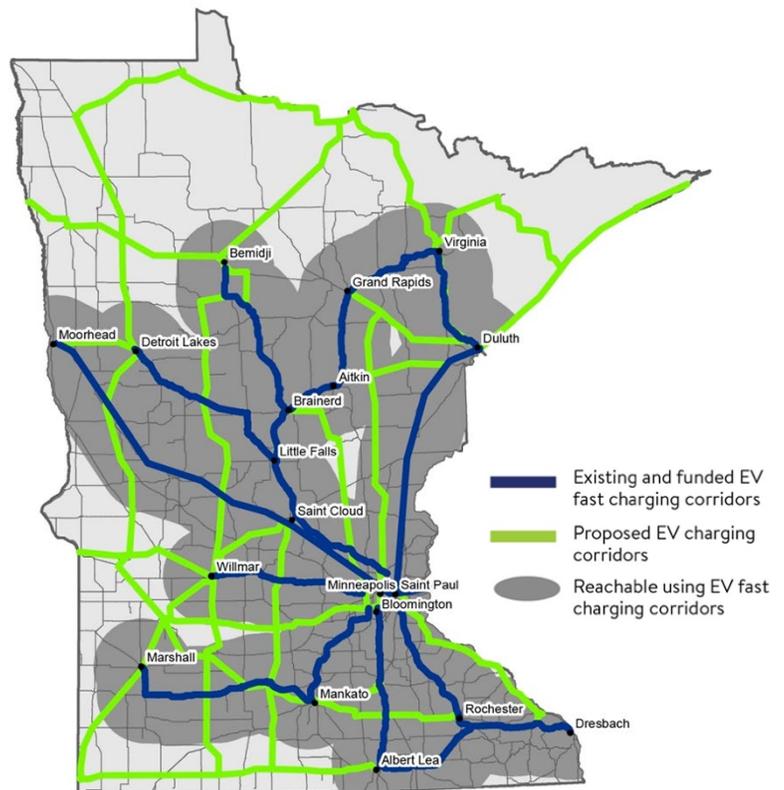
Expand electric-vehicle charging infrastructure

Meet public demand for filling the gaps in Minnesota's EV charging network.

What's the issue?

In Minnesota, the transportation sector has eclipsed the power-generation sector as the largest emitter of greenhouse gases (GHG). And light-duty vehicles account for nearly 70% of transportation's total GHG emissions. Encouraging electric-vehicle use could help Minnesota significantly reduce its GHG emissions.

In the maturing electric-vehicle market, consumers other than early adopters are considering making the switch to EVs. But the gaps in the state's charging network may cause some buyers to dismiss electric vehicles. Potential EV owners want to travel around the state without having to worry about where they can recharge. During the MPCA's robust stakeholder engagement as part of its Volkswagen Settlement agreement, participants frequently requested more EV charging stations. The agency has already received grant requests for \$3.7 million in VW settlement funds to install charging stations; only a little more than \$1.5 million is available. (The agency is only allowed to spend 15% of the settlement funds on EV charging infrastructure, per the terms of the federal court settlement agreement.)



Map from "Accelerating Electric Vehicle Adoption: A Vision for Minnesota," by MN Department of Transportation, February, 2019.

The map above shows existing and funded EV charging corridors in Minnesota (blue) along with a vision of a system that would help more Minnesotans to travel by EV (green). The dark grey areas show the parts of Minnesota that will be reachable using the EV fast-charging highway corridor system by the end of the first phase of VW settlement funding.

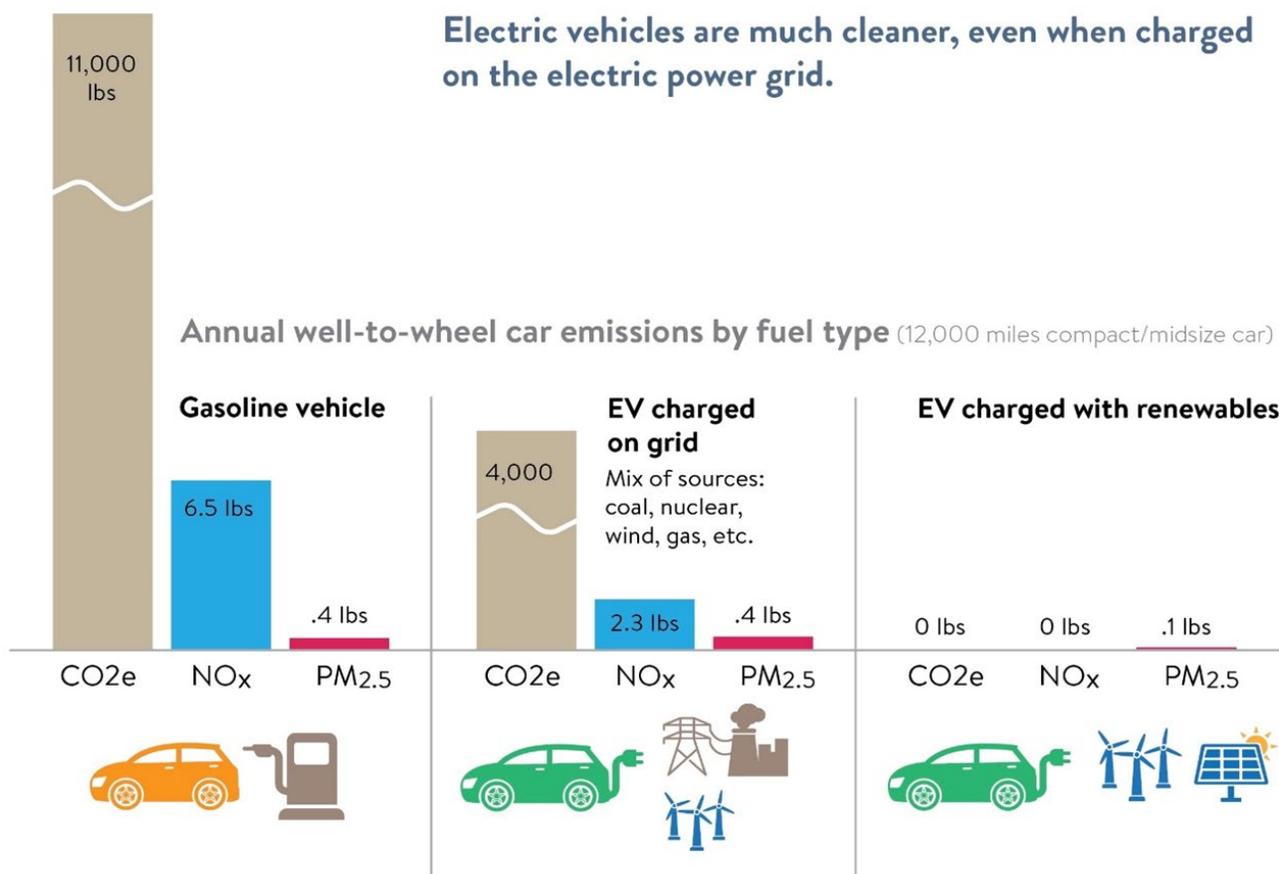
Proposal

Governor Walz recommends a two-part financing package to help build out the state's EV charging infrastructure. One part is a \$1.5 million one-time General Fund appropriation in FY2020, for grants to install

electric-vehicle charging stations. The other part is ongoing funding from EV registrations. In FY20 and 21 \$50,000 per year from the EV registration fee increase will go towards EV charging infrastructure. These funds will be distributed through existing MPCA programs for EV charging stations (programs created to process VW settlement funds). Both Fast and Level 2 chargers are included.

Why is it important?

Improving the EV charging network in Minnesota will encourage electric-vehicle purchases. Even when charged on the electric power grid, EVs are much cleaner than gasoline-powered vehicles. Each year, a gasoline-fueled car will emit on average 11,000 pounds of carbon dioxide equivalent (CO₂e), 6.5 pounds of nitrogen oxides (NO_x), and 0.4 pounds of particulate matter 2.5 (PM_{2.5}). An EV charged on the grid will emit 4,000 pounds of CO₂ equivalent, 2.3 pounds of nitrogen oxides, and 0.4 pounds of particulate matter 2.5.



Source: *The Air We Breathe: The State of Minnesota's Air Quality 2019*. Minnesota Pollution Control Agency, January 4, 2019.

For more information

Greta Gauthier
 Assistant Commissioner for Legislative & Intergovernmental Relations
 Minnesota Pollution Control Agency
 greta.gauthier@state.mn.us
 Office: 651-757-2031 • Mobile: 651-338-8955