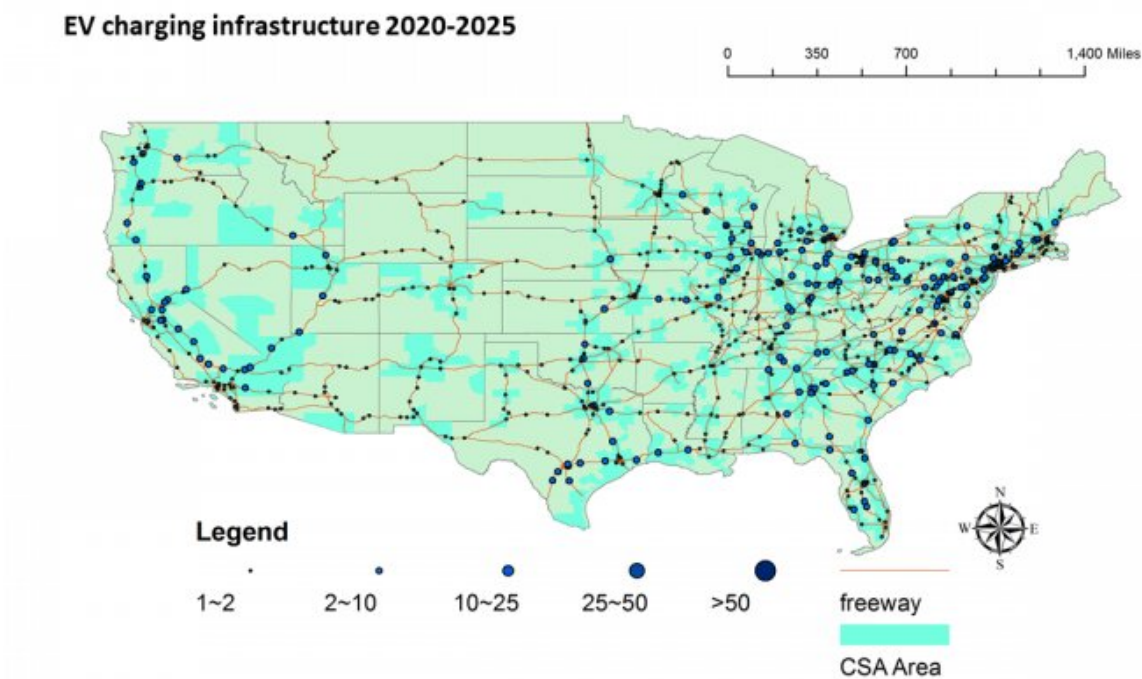


Deciding where and when to locate electric vehicle charging stations along interstate highways

July 7 2021



An estimate of projected EV charging infrastructure buildout through 2025 and 2040, respectively, using the REVISE-II software tool. Credit: Fei Xie/ORNL, U.S. Dept. of Energy

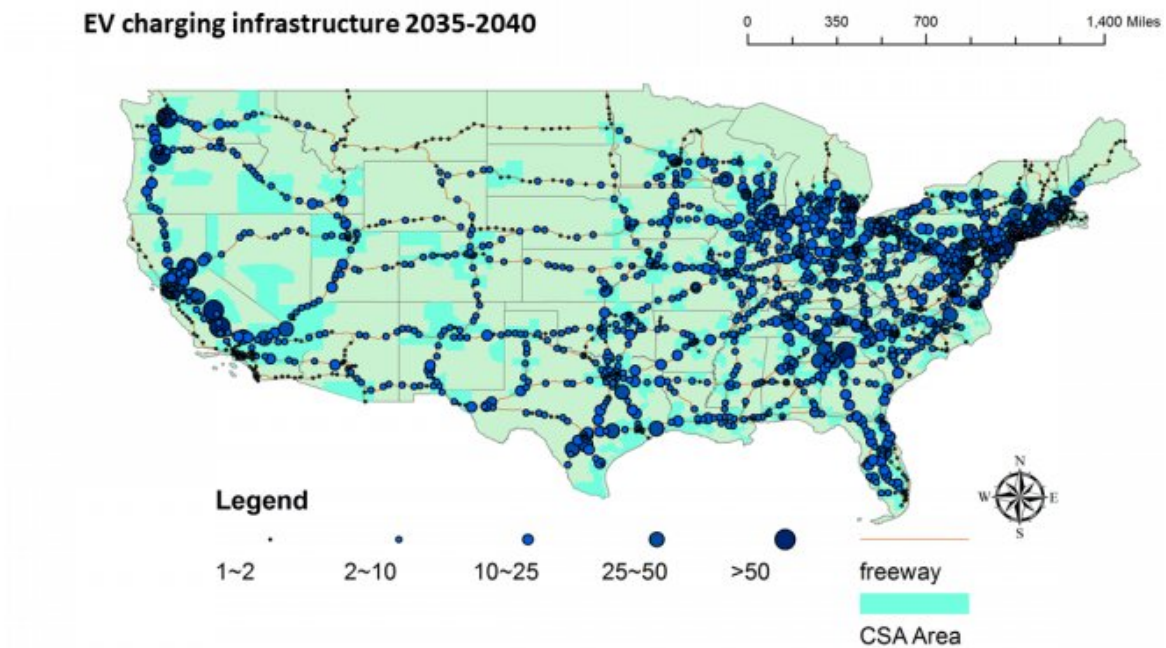
Researchers at Oak Ridge National Laboratory have developed a

nationwide modeling tool to help infrastructure planners decide where and when to locate electric vehicle charging stations along interstate highways. The goal is to encourage the adoption of EVs for cross-country travel.

The free [open-source software](#), called REVISE-II, takes into account EV growth forecasts, charging technology capabilities, intercity travel trends and driver demographics to help planners fill [infrastructure](#) gaps for charging facilities.

By inputting various assumptions, planners can generate scenarios for future charging infrastructure requirements to encourage acceptance of EVs and accommodate growth as more EVs are adopted.

"Providing infrastructure for intercity charging is a necessary step to make EVs fully competitive with conventional vehicles," ORNL's Fei Xie said. "This is a freely available planning tool that takes into account the complexity of intercity travel and helps [decision makers](#) more carefully plan these capital-intensive projects to support a nationwide, electrified future."



An estimate of projected EV charging infrastructure buildout through 2025 and 2040, respectively, using the REVISE-II software tool. Credit: Fei Xie/ORNL, U.S. Dept. of Energy

Provided by Oak Ridge National Laboratory

Citation: Deciding where and when to locate electric vehicle charging stations along interstate highways (2021, July 7) retrieved 24 April 2024 from <https://techxplore.com/news/2021-07-electric-vehicle-stations-interstate-highways.html>

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.