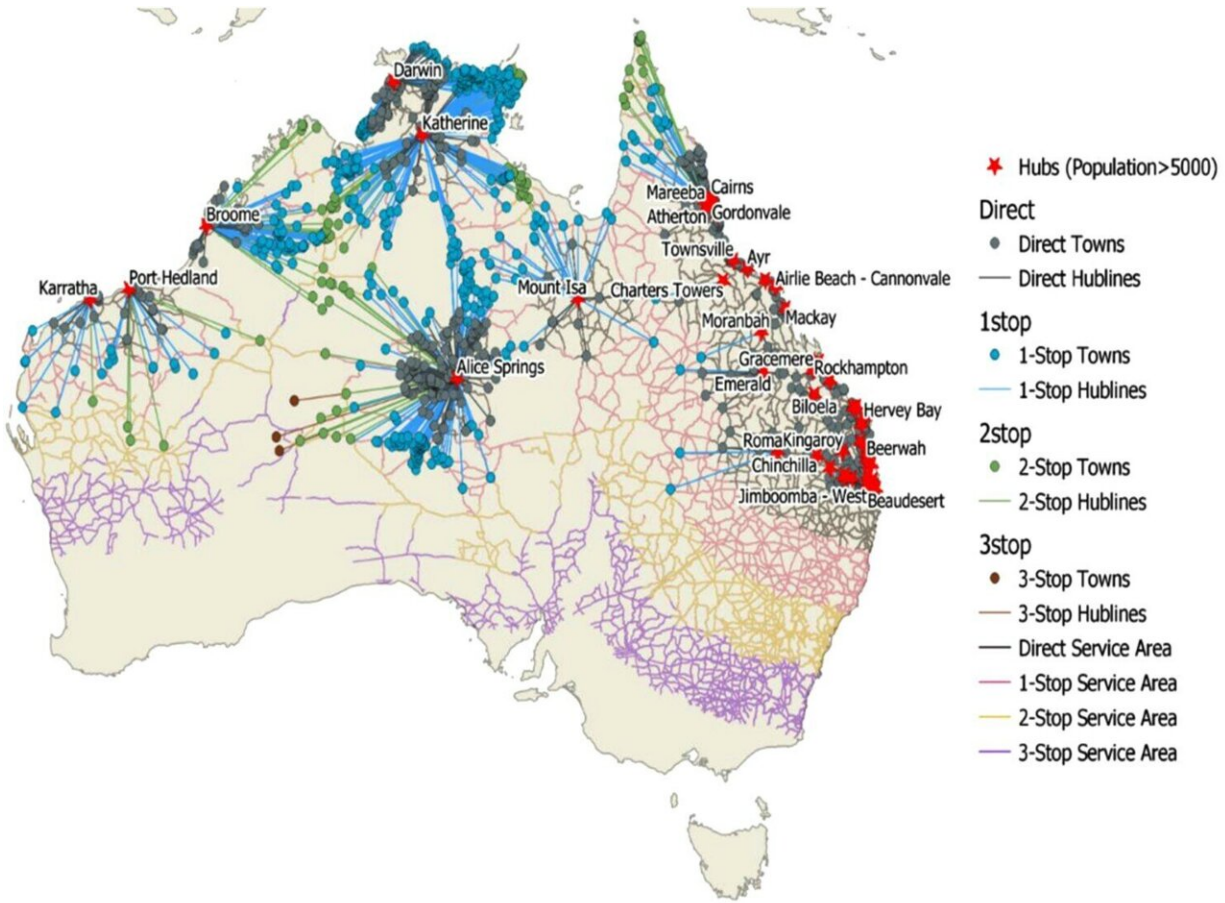


# Electric vehicles pass the remote road test

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Network map of non-service communities and their closest large service hub (population > 5000) using a lower-range EV (336 km range). Credit: *Australian Geographer* (2022). DOI: 10.1080/00049182.2022.2086720

Electric vehicles can handle the distances required to travel to essential

services in remote and regional Australia, according to a new study from The Australian National University (ANU).

According to co-author Dr. Bjorn Sturmborg, the results show the use of electric vehicles in remote communities is more feasible than might have been expected.

"We analyzed the distances between people's homes and the nearest 'service hub' towns—where they might go to do the shopping, for example," Dr. Sturmborg, said.

"The vast majority of residents, or 93%, could do those trips with even the lower-range of electric vehicles currently available on the Australian market. That's without needing to recharge en route."

Dr. Sturmborg said given this, there's no excuse for leaving our remote communities out of the discussion.

"We need to do better—electric vehicles shouldn't be left in the too hard basket. It's an unequitable and unfair path forward if remote and regional communities are the last ones left driving [diesel vehicles](#), especially as they will be some of the most impacted by catastrophic climate change," Dr. Sturmborg said.

"Yes the barriers are obvious—large distances, unsealed roads. But the benefits are equally obvious. It's difficult and expensive to get diesel out to these communities, and electric engines are simpler and more robust than fuel engines."

Co-author Dr. Francis Markham added there are some limits to what we know, and aspects that need further investigation.

"For example, we still don't have clear data on the impact of unsealed

roads or different conditions on the effective range of electric vehicles," Dr. Markham said.

"And information on the performance of electric vehicles in very hot conditions is still lacking. However, we are confident that electric vehicles do have a place in regional and remote Australia."

According to the researchers, [transport](#) is one of the key issues we need to tackle to limit the worst effects of climate change.

"The [transport sector](#) is responsible for 25% of global emissions and more than 18% of Australia's greenhouse gas pollution," Dr. Sturmberg said.

"It must rapidly decarbonize—and [electric vehicles](#) are going to be a crucial part of that decarbonization."

The research has been published in *Australian Geographer*

**More information:** Keigan Demaria et al, Exploring the feasibility of electric vehicle travel for remote communities in Australia, *Australian Geographer* (2022). [DOI: 10.1080/00049182.2022.2086720](https://doi.org/10.1080/00049182.2022.2086720)

Provided by Australian National University

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