FTMRS SOLAR

Is outdoor power charging cost-effective

Overview

Does charging cost vary within a state?

In contrast, BSS exhibits minimal price variability within a state by optimizing charging times to minimize electricity costs (Supplementary Fig. 9). Although the charging cost for BSS has limited geographical variability, it is highly dependent on the assumptions around capital cost and EV adoption.

How efficient is EV charging?

The VKT data, categorized by vehicle type on each roadway segment, were combined with EV adoption forecasts (Supplementary Figs. 1 and 2), a charging efficiency of 85% for each system 38, 46, and vehicle energy efficiencies to estimate the charging demand from EVs.

Are public charging costs considered for a TCO comparison?

In this study, only public charging costs from these systems were considered for the TCO comparison, although the actual TCO would include a mix of charging costs from home, workplace, fleet, public, and other locations.

Do electric vehicles need a charging infrastructure?

Nature Communications 15, Article number: 4680 (2024) Cite this article The seamless adoption of electric vehicles (EVs) in the United States necessitates the development of extensive and effective charging infrastructure.

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