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Energy storage charging station subsidies





Overview

Author links open overlay panel Weizhong Yue a b, Yingqi Liu c, Yu Tong c, <https://doi.org/10.1016/j.cjpre.2021.12.016> Get rights and content open access.

How do government subsidies help EV charging stations?

Types of Government Support Subsidies: Governments often provide direct financial subsidies to reduce the cost of installing EV charging stations. These subsidies can cover a portion of the infrastructure costs, making it more financially viable for private investors, businesses, and municipalities to deploy charging stations.

Can a government subsidize a charging station?

Subsidizing platforms rather than manufacturers can promote stations installation. To address the “chicken-and-egg” dilemma in the electric vehicle (EV) market, the government intervenes by offering EV purchase subsidy to consumers and charging station construction subsidy to installers.

Do charging stations benefit more from a Consumer Subsidy?

Notably, both installers benefit more from the consumer subsidy when charging stations achieve the scale effect ($\beta \geq 0.6$), while they gain more profit from the station subsidy when charging stations are insufficient ($0 < \beta < 0.6$). Moreover, we examine the effects of equal and different amount of station subsidies given to both installers.

How many types of subsidies are considered in a charging station model?

Three different types of subsidies are considered in the model. Two charging station installers are simultaneously considered in the model. Subsidies combination shows most effective impact on installing charging station. Station subsidy is more conducive to EV adoption than consumer subsidy.



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