Lebanon s pv distribution bidirectional charging price reduction

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What is the optimal pricing strategy of electric vehicle charging station?
Optimal pricing strategy of electric vehicle charging station for promoting green behavior based on time and space dimensions. J Adv Transp. 2020:1-16. doi:10.1155/2020/8890233. This section describes the parameters used for random instance generation. The number of time slot is fixed to 24, and the budget is randomly choose between 80 and 200. The

How can pricing support the use of the charging infrastructure?
Our focus in on pricing. A significant body of research has been carried out on how pricing can better support the use of the charging infrastructure by adjusting the price of charging depending on location and time of dayso as to improve the distribution of demand (e.g. [Flath et al. 2014; Hu et al. 2016; Moghaddam et al. 2019]).

What does an electricity provider need to know about charging stations?
An electricity provider (the leader) needs to define time-varying pricesassociated with charging stations as well as the quantity of energy allocated to each station,taking into account the preferences of the customers (the followers) with respect to the place and time period to charge.

What is the optimization model for electric vehicle charging infrastructure planning?
An optimization model for electric vehicle charging infrastructure planning considering queuing behavior with finite queue length. J Storage Mater. 29:101317. doi:10.1016/j.est.2020.101317. Xu X, Niu D, Li Y, Sun L. 2020. Optimal pricing strategy of electric vehicle charging station for promoting green behavior based on time and space dimensions.

ABSTRACT We consider a provider of electric vehicle charging stations that operates a network of charging stations and use time varying pricing to maximize profit and reduce the impact on the electric grid. ...

Lebanon faces an enduring energy crisis, characterized by persistent electricity shortages and an overreliance on polluting self-generation methods, particularly in urban areas like Beirut. Despite the lack ...

Bi-directional smart charging offers additional flexibility compared to uni-directional smart chargers, but are expensive to install and implement. This paper investigates the costs and benefits to the ...

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The solar PV status report for Lebanon was published for the first time in 2016, thanks to the United Nations Development Program - Decentralized Renewable Energy Generation Project (UNDP - ...

Cost-optimized vehicle-to-grid concepts (V2G), known as time arbitrage, market- or tariff-optimized charging, allow to charge and discharge based on the spot market price (day-ahead and intraday) [5]. ...

Abstract In areas with great solar potential, like Lebanon, combining solar energy systems--especially photovoltaic (PV) and photovoltaic-thermal (PVT) technologies--has emerged as a ...

The increase in total losses and those just in the distribution system using bidirectional charging compared to uni-directional.

The Bidirectional Charging project, which began in May 2019, aimed to develop an intelligent bidirectional charging management system and associated EV components to optimize the EV flexibility ...

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