Algoritmo de gestión para la recarga de vehículos eléctricos [

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Analítica

This article presents a management scheme for electric vehicle charging, considering the massive penetration of these can cause negative effects on distribution networks, compromising the reliability, quality and security of system. With the proposed algorithm, the network operator will benefit by avoiding the overload of distribution circuit, minimizing the power losses and improving the voltage profile. The proposed model assigns an initial charge for each vehicle following a probability function that represents the required energy based on mobility patterns of the city, the capacity and discharged energy of battery. Finally, we verified the effectiveness of the proposed management scheme to analyzing a study case for the city of Bogotá.
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