

Accepted Manuscript

A Simplified Control Algorithm for Utilities to Utilize Plug-in Electric Vehicles to Reduce Distribution Transformer Overloading

Shahab Shokrzadeh, Hajo Ribberink, Issa Rishmawi, Evgueniy Entchev



PII: S0360-5442(17)30728-4
DOI: 10.1016/j.energy.2017.04.152
Reference: EGY 10793
To appear in: *Energy*
Received Date: 27 July 2016
Revised Date: 21 April 2017
Accepted Date: 29 April 2017

Please cite this article as: Shahab Shokrzadeh, Hajo Ribberink, Issa Rishmawi, Evgueniy Entchev, A Simplified Control Algorithm for Utilities to Utilize Plug-in Electric Vehicles to Reduce Distribution Transformer Overloading, *Energy* (2017), doi: 10.1016/j.energy.2017.04.152

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

1. An algorithm is presented to reduce distribution transformer overloading.
2. The algorithm helps utilities control the load of electric vehicles.
3. Key parameters and scenarios impacting distribution transformers are identified.
4. Vehicle-to-Grid can successfully reduce distribution transformer peak loads.
5. Broad deployment of electric vehicles will require infrastructure upgrades.

Download English Version:

<https://daneshyari.com/en/article/5476623>

Download Persian Version:

<https://daneshyari.com/article/5476623>

[Daneshyari.com](https://daneshyari.com)