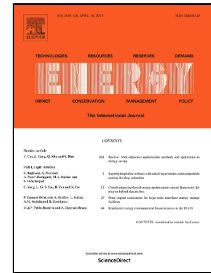


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A Simplified Control Algorithm for Utilities to Utilize Plug-in Electric Vehicles to Reduce Distribution Transformer Overloading

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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.

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