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Authors: Elahe Doroudchi, Kari Alanne, Özge Okur, Jorma

Kyyrä, Matti Lehtonen

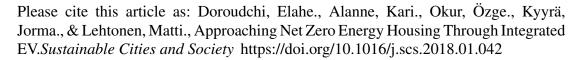
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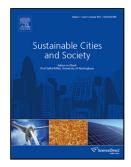
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ACCEPTED MANUSCRIPT

Approaching Net Zero Energy Housing Through Integrated EV

Elahe Doroudchi¹, Kari Alanne², Özge Okur¹, Jorma Kyyrä¹, Matti Lehtonen¹

Highlights

- An intelligent energy management system is demonstrated for a single-family house.
- Electric vehicle is considered as an active component of the buildings energy system.
- Energy demand model is proposed to approach the net-zero energy building (NZEB).
- The proposed system is assessed for district heating and ground source heat pump.
- The energy management model results in annual cost savings for the household owner.

¹ Department of Electrical Engineering and Automation, School of Electrical Engineering, Aalto University

² Department of Mechanical Engineering, School of Engineering, Aalto University

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