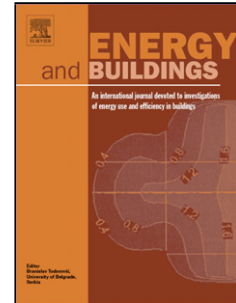


## Accepted Manuscript

Title: Model for Electric Load Profiles With High Time Resolution for German Households

Author: David Fischer Andreas Härtl Bernhard Wille-Hausmann



PII: S0378-7788(15)00084-5  
DOI: <http://dx.doi.org/doi:10.1016/j.enbuild.2015.01.058>  
Reference: ENB 5663

To appear in: *ENB*

Received date: 9-10-2014  
Revised date: 19-12-2014  
Accepted date: 23-1-2015

Please cite this article as: David Fischer, Andreas Härtl, Bernhard Wille-Hausmann, Model for Electric Load Profiles With High Time Resolution for German Households, *Energy & Buildings* (2015), <http://dx.doi.org/10.1016/j.enbuild.2015.01.058>

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- A bottom-up method is developed which generates stochastic high resolution electric load profiles for domestic electricity consumption
- Subgroups of different socio-economic features are modelled, which is possible due to the vast database that serves as foundation for the model
- The conditional dependency between the duration of an energy consumption activity and the start time of the same activity is incorporated in the model
- Seasonal effects on the use pattern of electric appliances in households are taken into account
- Validation of the synPRO model was done for German conditions using measurements of annual electricity loads for 430 households

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