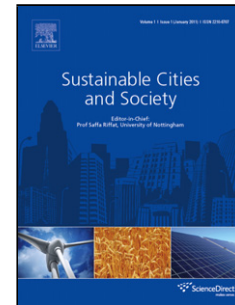


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Modeling the Electrical Energy Consumption Profile for Residential Buildings in Iran

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Highlights:

- A bottom-up method is used to obtain the load profile of residential subscribers.
- The cumulative profile for 149 residential subscribers is modeled.
- The number of residents and the way of using different equipment is considered.
- The obtained profile can be used for optimal planning and management of the network.

Abstract

The development of smart grid, especially using the demand side management (DSM) programs in order to control the consumption pattern and optimize the energy consumption is severely growing. The consumers' behavior intensively influences the resources and demand control in the

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