A Study on Willingness of Chinese Housing Residents to Adopt Solar Photovoltaic Power Generation

Qing Guo¹² and Hui-ling Song¹*)

¹School of Economics and Management, China University of Geosciences, Wuhan, Hubei 430 074 China
Telephone: (34) 675-694-084, E-mail: qingguovip@126.com
²Industrial Engineering Department, Technical University of Madrid, Madrid 28006 Spain


ABSTRACT The study was conducted based on data from 330 questionnaires with the adoption of single factor analysis of variance S-N-K test method and LSD multiple comparison analysis. The paper examined residents’ willingness to adopt solar photovoltaic power generation among various groups with different housing conditions, including housing ownership, residential floors and residential housing areas. Afterwards, by using a regression model, the paper conducted a regression analysis of the demographic variables influencing their willingness to adopt solar photovoltaic power generation. The results indicated that the types of housing resulted in significant differences in residents’ willingness to adopt solar photovoltaic power generation. Housing ownership, residential floors and residential housing areas had significant impacts on their willingness to adopt. Based on these findings, this paper put forward corresponding policy recommendations.