

INFORMATION ON NEW CONCLUSIONS OF DOCTORAL DISSERTATION

(Information will be posted on the Website)

Name of dissertation: ***Factors affecting the intention to invest in rooftop solar power in Vietnam - a case study in large cities***

Major: **Business Administration**

Code No: **9340101**

Name of PhD. Student: **Thân Thị Thủy Dương**

Advisors:

1. Assoc. Prof. Dr Bui Quang Tuan

2. Dr. Duong Trung Kien

Training Institution: **Electric Power University**

Summary of new contributions of the Dissertation

1. The research model is built on the basis of an overview of domestic and foreign studies to select the factors affecting the investment decision of households rooftop solar power in accordance with current Vietnamese context. The research model of factors affecting investment in rooftop solar power in Vietnam includes 8 independent variables: risk calculation, environmental protection perspective, social consumption trends, reference group, government policies, needs and motivations, product characteristics, economics and a group of demographic variables such as gender, age, occupation, education level, and income.

2. By quantitative analysis according to SEM model based on primary data collected and surveyed from households that have installed rooftop solar power systems in Hanoi and Ho Chi Minh City. It is found that risk has the opposite effect, other factors all have a positive impact on the investment decision of households in rooftop solar power. The results of the regression analysis with the significance level of 5% show that only 8 factors are statistically significant and have different levels of impact on households' investment decisions in rooftop solar power⁴ arranged in the following order: NC > KT > DT > TK > TH > TN > RR > XH. The proposed hypotheses are all accepted.

3. Quantitative research results help policy makers know what factors need to be changed with different priorities to promote household investment in rooftop solar power. In addition, the study also shows the difference in investment decisions in rooftop solar power between groups of household heads. There are differences in investment decisions in rooftop solar power systems between male and female household heads, between age groups and between income groups. This result helps managers, businesses that supply and install rooftop solar power systems to choose the right approach to achieve the goal.

4. The study also shows that the lack of synchronization of the grid power system and the inadequacies in policies become barriers to the increase of household investment in rooftop solar power despite many potential. The thesis has built scientific arguments through proposing and researching solutions to promote investment in rooftop solar power of households in Vietnam. They are: Promoting investment needs of households; Improve the economics of rooftop solar power systems; Enhance reference information for investors; Propagating and raising awareness on environmental protection for households about electricity production; Completing and synchronizing the rooftop solar power development policy. If these solutions are interested by both the Government and businesses, the development of rooftop solar power in Vietnam will be very positive.

TM. Tập thể hướng dẫn

Hanoi, 22 August 2022

PhD. Student

(Signature)

Assoc.Prof.Dr. Bui Quang Tuan Dr. Dương Trung Kiên

Thân Thị Thụy Duong