

Article

Solar Energy Utilization Potential in Urban Residential Blocks: A Case Study of Wuhan, China

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Abstract: In dense, energy-demanding urban areas, the effective utilization of solar energy resources, encompassing building-integrated photovoltaic (BIPV) systems and solar water heating (SWH) systems inside buildings, holds paramount importance for addressing concerns related to carbon emission reduction and the balance of energy supply and demand. This study aimed to examine the interplay between urban residential blocks and their solar energy potential, with the objective of promoting environmentally sustainable development within urban residential areas. The primary focus of this study was the hot summer and cold winter zone of China, which serves as a representative case study. Methodologically, we employed Rhinoceros and Grasshopper (GH) software version GH6.0 tools to simulate the solar radiation potential within residential blocks and translated this information into the potential utilization of BIPV and SWH systems. Subsequently, our focus was directed towards identifying optimal locations for mounting BIPV modules and water heaters on roofs and building façades. The study results revealed the following: (1) The floor area ratio (FAR), building density (BD), average building height (ABH), and space layout (SL) exerted substantial influences on the solar potential of a residential block, with correlations of up to 75%, 71%, 78%, and 50%, respectively, concerning the overall solar potential of the entire plot. (2) It is essential to emphasize that, with regard to the BIPV installation potential, façades account for 80% of the overall residential block potential, whereas rooftops contribute only 20%. Both south- and west-facing façades exhibited a BIPV installation ratio of approximately 34%. (3) In the realm of solar water heating, the potential for installations on building façades accounted for 77% of the total living area of the residential blocks, 23% on the rooftops, and 35% on the south-facing façades. This study furnishes practical guidelines for harnessing the potential of BIPV and SWH systems within residential blocks, thereby contributing to the advancement of sustainable urban development practices.

Keywords: solar energy utilization potential; urban residential block patterns; building-integrated photovoltaics; solar hot water utilization; hot summer and cold winter zone of China

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1. Introduction

At present, the development of renewable energy is a common goal, and there is a global consensus among countries around the world. By 2023, the global cumulative power generation will reach 77,620 terawatt-hours (TWh), of which coal will account for 67.0% (6123 TWh), while renewable energy will account for 20.3% (4983.14 TWh), with solar power accounting for a large proportion of the total [1,2]. Solar energy has become one of the most important clean energy sources and has been widely welcomed due to its safety, cleanliness, and ease of utilization [3]. As a renewable energy technology, the

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