



An integrated fuzzy optimal location selection model for setting up floating solar photovoltaic plant: Implications for energy sustainability in Bangladesh

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ABSTRACT

Floating Solar Photovoltaic (FSPV) plants have emerged as a promising solution, harnessing solar energy while utilizing water bodies effectively, especially for emerging economy countries with limited land resources like Bangladesh. However, selecting an optimal location for such a solar plant requires a comprehensive evaluation of multiple criteria. This research, therefore, proposes a multi-criteria decision-making framework that integrates the Fuzzy Best Worst Method (F-BWM) and Fuzzy Combined Compromise Solution (F-CoCoSo) method to determine the optimal location for establishing a floating solar photovoltaic plant in Bangladesh. Through literature review and expert validation, ten key criteria were identified for suitable site selection for FSPV. Relative weights of the identified evaluation criteria were calculated using the F-BWM method. Following that, the F-CoCoSo approach was employed to rank the eight alternative potential sites in Bangladesh based on the F-BWM weights. The F-BWM result indicates that solar irradiance, terrain elevation, and conflicts over water access are the three most significant factors in selecting the site for FSPV installation. F-CoCoSo results identified the Kaptai Lake, located in southeastern Bangladesh, and Barapaisaria Coal Mine's Lake, located in northwestern Bangladesh, as the two most preferable sites for installing FSPV plants. The research findings are expected to help academicians, policymakers, energy planners, and investors by offering a nuanced understanding of the significance of various technical, environmental, and social criteria for FSPV installation projects. Additionally, it offers a robust framework for site selection that enhances the efficiency, sustainability, and feasibility of FSPV projects in Bangladesh.

1. Introduction

The global energy market started to shrink since 2021 due to rapid economic recovery following the COVID-19 pandemic. However, the situation intensified significantly into a severe worldwide energy crisis due to the conflict between Russia and Ukraine in recent years. This polarization has put pressure on energy imports in different parts of the world, particularly in Bangladesh and other countries that are rapidly industrializing and experiencing economic growth [1]. In order to achieve the objective of the Paris Agreement, which is to keep the

increase in global temperature to 1.5 °C over pre-industrial levels by the year 2100, a comprehensive transformation in the global energy production and consumption methods is necessary [2]. For Bangladesh to align with this target, it is crucial to transition from the conventional dependence on fossil fuels to sustainable renewable energy sources. Within this context, the implementation of floating solar photovoltaic (FSPV) technology emerges as a feasible option for sustainable energy generation in Bangladesh, aligning with the Sustainable Development Goals (SDGs). In recent times, Bangladesh has been putting efforts into increasing the installed capacity in power generation, but mostly, these

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Integrated Rfid Model For Optimal Selection Of Drilling

Michal Rosen-Zvi



Integrated Rfid Model For Optimal Selection Of Drilling:

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In a global inundated with monitors and the cacophony of instant interaction, the profound energy and emotional resonance of verbal beauty usually fade in to obscurity, eclipsed by the continuous onslaught of noise and distractions. Yet, set within the lyrical pages of **Integrated Rfid Model For Optimal Selection Of Drilling**, a captivating work of fictional elegance that pulses with natural feelings, lies an wonderful journey waiting to be embarked upon. Penned with a virtuoso wordsmith, that mesmerizing opus courses viewers on a psychological odyssey, softly revealing the latent potential and profound affect embedded within the elaborate web of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is main styles, dissect their interesting publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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