Title:

Investment Strategies for Achieving SDG 11 in Japan: A Portfolio Optimization Appr oach in Key Infrastructure Industries

Abstract :

Japan, being one of the most earthquake-prone countries in the world, faces signif icant challenges in maintaining sustainable and resilient urban development. In li ne with the United Nations' Sustainable Development Goal 11 (SDG 11), which aims t o make cities inclusive, safe, resilient, and sustainable, this study explores the potential of achieving this goal through strategic investment in key industries. T he research focuses on the domestic sectors of electricity, gas, telecommunication s, and construction, which are critical for urban resilience and infrastructure. T he methodology begins by narrowing down the scope to companies within these sector s, then further refining the selection to 20 companies through fundamental analysi s. The analysis evaluates the financial health, market position, and long-term gro wth potential of these companies, ensuring they are well-positioned to contribute to sustainable urban development. Following the selection, a portfolio optimizatio n approach is employed to determine the optimal investment allocation. This optimi zation considers not only the potential financial returns but also the companies' contributions to urban resilience and the broader societal benefits. By balancing these factors, the study aims to propose an investment strategy that not only maxi mizes returns for investors but also significantly contributes to the development of sustainable cities in Japan. The findings are expected to provide actionable in sights for both investors and policymakers in aligning financial objectives with t he achievement of SDG 11, thereby promoting a sustainable and resilient future for Japan's urban areas.