

عنوان مقاله:

OPTIMAL ENERGY MANAGEMENT SYSTEM FOR A NET ZERO BUILDING USING MULTI-AGENT SYSTEMS
APPROACH

محل انتشار:

سیزدهمین کنفرانس بین المللی مهندسی صنایع (سال: 1395)

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خلاصه مقاله:

Buildings have a significant impact on energy usage and the environment. Much of the research in architectural sustainability has centered on economically advanced countries because they consume the most energy and have the most resources. However, sustainable architecture is important in developing countries, where the energy consumption of the building sector is increasing significantly. The aims of this study are investigating using the hybrid system, which formed by interconnecting two source of renewable energy as solar and wind along with city grid for compensation purposes wherever it is required. In this study, after literature review, we consider the case study and its assumptions, System description and its characteristics following by discussion of renewable energy sources in more details. Furthermore, the optimization and prediction issues and the data uncertainty in this field have .considered. Then, the net logo programming language is utilized for simulation of the system

کلمات کلیدی:

Net zero energy building, Solar, Wind, Simulation, Net logo programming

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