

As the world faces pressing climate and energy challenges, Artificial Intelligence is proven as a transformative force in advancing renewable energy systems. This study reviews the current ...

This study conducts a case analysis on a retrofitted primary school building in Guangdong, China, utilizing BIM-based energy simulations, material optimization, and solar technology integration. ...

Rapid urbanization and escalating energy demands necessitate innovative solutions for sustainable and efficient energy management in smart cities. This paper presents a novel ...

Topic Information Dear Colleagues, We are inviting submissions for the Topic on "Smart Solar Energy Systems". To satisfy energy demand with the maximum quality and reliability of service and simultaneously achieve the ...

IET Energy Systems Integration?????,?????SCI?????,????? "??"????????????????????? ...

This model offers an exciting alternative for settings where traditional EV charger installations are limited by grid constraints or cost barriers. Whether in retail parks, business campuses, or ...

Smart grids represent significant changes in the management and operation of electrical power systems [1, 2]. A smart grid is an electric power system with advanced communication, control, ...

A recent trend, emerging in both rural communities and smart city neighbourhoods, is for groups of household prosumers to form local energy communities that invest together in jointly owned renewable generation and ...

In our rapidly urbanizing world, adopting smart urban energy solutions holds the potential to transform cities and steer them toward sustainability. These solutions encompass innovative technologies, policies, ...

Lafan's work explored the potential of regional slurry treatment hubs using anaerobic digestion and pyrolysis, while Water to Water focused on how Smart Local Energy Systems (SLES) can ...

Communities are pursuing more innovative and complex approaches to reduce their energy bills. For example, the Net Zero Terraced Streets project in Lancashire is aiming to develop a smart local energy ...



Smart local energy systems

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