

This review systematically examines the role of latent thermal energy storage using phase change materials (PCMs) in optimizing HVAC performance to align with EU climate targets, including ...

The global transition from fossil fuels to renewable energy is vital for mitigating climate change, yet plans to transition China are generally coarsely resolved. This study introduces the China ...

This study conducts a comparative analysis of renewable energy development in two ecologically sensitive coastal regions of India: the Andaman & Nicobar Islands and the Sundarbans. ...

Additionally, the rainy season further impacts efficiency due to reduced solar irradiance. 100% shading over photovoltaic panels may reduce approximately 60% of their total power loss, and ...

Solar energy is radiation from the Sun that is capable of producing heat, causing chemical reactions, or generating electricity. The total amount of solar energy incident on Earth is vastly in excess of the world's energy ...

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Energy transformation is imminent as resource depletion and environmental problems become increasingly severe. Under the guidance of the clean and low-carbon concept, the efficient use ...

The construction industry is one of the main areas of energy consumption and carbon emissions, and strengthening research on the thermal performance of building facades can effectively ...

Water scarcity is a growing concern around the world, with many regions facing droughts, water shortages, and poor water quality. At the same time, renewable energy sources, such as solar ...

Taking energy as an entity to be considered for a sustainable life cycle, this subsection reviews, introduces, and briefly describes a possible point of view to obtain an overall sustainable ...

Tras el rechazo del RDL 7/2025, la AEE reclama una solución legislativa urgente que recupere sus medidas técnicas y evite frenar la electrificación, la seguridad energética y la competitividad.

This paper applies a systematic literature review methodology to identify the research around energy efficiency retrofit in historical buildings, then analyzes this data to find out the common ...

Here, we perform a Systematic Literature Review (SLR) using the PRISMA protocol, retrieving 19 closely related primary studies. The evidence is synthesized across three axes: application ...

Photovoltaic (PV) systems play a pivotal role in the transition to renewable energy worldwide, yet their long-term performance and cost-effectiveness critically depend on robust Operation and ...

The Riau Islands in Indonesia, Southeast Asia are an emerging green energy frontier. This paper shows the long-term making of this frontier. Through qualitative research, I trace colonial ...

This literature review explores various machine learning approaches for anomaly detection in solar power plants. Ibrahim et al. [16] evaluated the performance of different machine learning ...



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