



Türkiye artificial intelligence in renewable energy

Between 2005 and 2024, through an increase in renewable capacity from 13GW in 2005 to 67.5GW in 2024, Türkiye has avoided 892 million tons of CO₂ emissions. An important boost to our solar and wind target comes with our recent announcements for annual RE-Zone tenders, to meet a total of 35GW in electricity generation.

In recent years, artificial intelligence methods have been widely applied to solve issues related to renewable energy because of their ability to solve nonlinear and complex data structures. In this paper, we provide a comprehensive bibliometric analysis to better ...

One of the most common uses for AI by the energy sector has been to improve predictions of supply and demand. Developing a greater understanding of both when renewable power is available and when it's needed is crucial for next-generation power systems.

The efficient use of renewable energy resources in agriculture and artificial intelligence-supported energy efficiency management practices can help achieve sustainable agriculture goals.

Third, artificial intelligence works on renewable energy development through technology effect and innovation effect. Fourth, climate finance also presents direct benefits to renewable energy development; simultaneously, climate finance plays an effective moderating role in the relationship between artificial intelligence and renewable energy ...

The "Role of Artificial Intelligence in Energy Report," which examines the global and Turkish past, present, and future of digitalization and artificial intelligence applications in energy, has been published by TÜBA Energy Working Group.

The research methodology involves designing an AI-based energy management system that incorporates data analytics, optimization techniques, and renewable energy technologies. The system architecture includes modules for energy generation, storage, and transmission, with key technologies such as smart control strategies and real-time ...

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The renewable energy sector is undergoing a significant transformation propelled by the rapid integration of Artificial Intelligence (AI), revolutionizing the entire renewable energy value chain--from resource assessment to energy generation, storage, and distribution. AI is expected to significantly boost efficiency, optimize operations, and streamline decision making.

This review specifically explored the applications of diverse artificial intelligence approaches over a wide range of sources of renewable energy innovations spanning solar power, photovoltaics, microgrid integration, energy storage and power management, wind, and geothermal energy comprehensively.

Türkiye has designed one of the most ambitious strategies globally to scale-up renewable energy generation. The strategy plans to add up to 60 GW by 2035 (5 GW per year). To achieve this, the private sector will have to provide most of the investments needed, and the country will have to address renewable integration



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