

Artificial Intelligence for Energy efficiency: Towards Sustainable Development Goals

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This study aims to explore the integration of artificial intelligence (AI) in sustainable energy solutions, highlighting the crucial role of AI in accomplishing the United Nations and Sustainable Development Goals (SDGs).

This talk explores the integration of AI technologies with sustainable energy practices, presenting a comprehensive analysis of how AI can be utilized to create more efficient, cost-effective, and environmentally friendly energy solutions. It covers a wide range of topics, starting with the introduction of Sustainable Development Goals and their relevance to global energy needs. Then, the role of energy in sustainable development, the potential of AI in enhancing sustainability, and specific applications of AI in providing affordable and clean energy are explored. Furthermore, it examines the application of AI in energy management and addresses ethical concerns about AI adoption in the energy industry. The major goal of this talk is to give an in-depth overview of how AI may help achieve sustainable energy solutions. It attempts to address the knowledge gap and provide practical insights into integrating AI to accomplish sustainable energy goals.