

عنوان مقاله:

Towards a Sustainable and Integrated Transportation System Powered by Solar Energy

محل انتشار:

سومین کنفرانس بین المللی شهر هوشمند، چالش ها و راهبردها (سال: 1402)

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خلاصه مقاله:

The paper presents a comprehensive framework for integrating solar energy into transportation systems, focusing on key components such as solar-powered vehicles, charging infrastructure, smart grid integration, public transportation, and policy support. It emphasizes the benefits of this approach, including reduced carbon emissions, energy independence, cost savings, and improved public health. The framework outlines a step-by-step guide for planning, feasibility study, technology assessment, financial analysis, stakeholder engagement, pilot projects, scaling up, and continuous improvement. Additionally, it discusses the hardware and software requirements essential for implementing such systems. By following this framework, stakeholders can pave the way for a sustainable transportation system powered by solar energy, bringing environmental, economic, and social benefits.

کلمات کلیدی:

.Sustainable transportation, Solar energy, Integrated transportation systems, Renewable energy, Transportation infrastructure :

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