

# **Sustainable Energy Solutions for Smart Cities**

**Abstract:** This paper discusses the growing importance of renewable energy technologies in developing sustainable smart cities. Solar, wind, and hydro energy sources are being integrated into urban infrastructure to minimize carbon footprints and combat climate change. The transition to green energy is vital to achieving long-term energy security and environmental sustainability.

Smart grids and IoT-based monitoring systems play a crucial role in optimizing energy use and reducing waste. Governments and private sectors must collaborate to invest in renewable energy projects and promote eco-friendly urban planning. By adopting these strategies, cities can improve air quality, lower operational costs, and ensure a cleaner future for the next generation.

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