Impact of AI and Optimization on the Economics of Sustainability

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The transformative impact of AI on the economics of sustainability lies in its ability to optimize resource use, reduce waste, and drive innovation, fundamentally aligning economic systems with sustainable practices. By leveraging predictive analytics and intelligent automation, AI enhances renewable energy integration, streamlines agriculture, and advances circular economy models, such as precision recycling. It also accelerates the adoption of green technologies, like electric vehicles and smart cities, enabling governments and businesses to achieve sustainability goals while fostering economic growth. Ultimately, AI harmonizes economic progress with environmental stewardship, positioning itself as a key enabler of sustainable and resilient economies.