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(57) Abstract :

The present disclosure introduces an Eco-Blockchain Power Guard 100 which is an innovative system designed to combat unauthorized energy consumption by continuously monitoring electricity consumption patterns in real-time. This innovative system comprises of solar panel 102, smart meter 104, microcontroller 106, communication module 108, recycled LCD screen 110, battery 112, Blockchain System 114 and system operator 116. Through the integration of a communication module and blockchain technology, the Eco Power Guard ensures secure data transmission and storage, enabling remote monitoring and prompt action against power theft instances. Reference Fig 1

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