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Implementation of an Intelligent System which Sets an Energy Consumption Threshold and Adjusts Behaviors (Iisectb)

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Abstract

The implementation of a smart energy management system aims to optimize energy consumption by establishing a threshold that must not be exceeded. This system uses advanced algorithms and sensors to monitor the energy consumption of devices in real time. When a predefined threshold is reached, the system automatically adjusts the behavior of connected devices, reducing energy consumption during peak periods or when resources are limited. This may include reducing device power, shifting certain tasks to less energy-intensive times, or activating renewable energy sources when possible.

Keywords: Smart System, Connected Devices, Energy Threshold, Algorithms, Energy Saving