Application of petri net in microgrid

Overview

In this study, new Hybrid Petri Net (PN) application is proposed for modelling and analyzing smart microgrid. The model presented is derived from the principle of power balance in a bus. Since the energy domain is in a transformative shift towards sus-tainability, the integration of new technologies and smart systems into traditional power grids has emerged. This work proposes to promote microgrid. Smart microgrid has become a promising solution for efficient use of renewable energy resources and enhancing reliability. Explore technical frameworks, real-world case studies, and 2024 industry trends for optimized grid management. Why Are Traditional Microgrid Models Struggling in 2024?

Modern power. With renewable energy coming to the forefront of how power is generated and delivered to the modern consumer, Microgrids are emerging as an optimal and efficient method for implementing renewables and changing the infrastructure of the dated transmission and distribution grid.

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