

BIOGRAPHY

Suttipong Dejchinda is currently pursuing a Master of Engineering in Electrical Engineering at Suranaree University of Technology (SUT), where he previously earned his Bachelor of Engineering with first-class honors in 2022. His research focuses on the optimal scheduling of multi-energy systems, particularly the integration of wind-solar power and hydrogen storage. To enhance energy efficiency and reduce energy losses, he has developed optimization algorithms based on Particle Swarm Optimization (PSO). His research findings have been presented at the 12th International Electrical Engineering Congress (iEECON 2024) and accepted for publication in the GMSARN International Journal. In addition to his research, Suttipong has extensive teaching experience in electrical engineering. He has led laboratory courses covering fundamental topics such as diodes, rectifiers, Kirchhoff's laws, and motor and transformer applications. Furthermore, he has taught programming for electrical engineering applications, guiding students in Python-based circuit simulation and interface development. His teaching approach emphasizes both theoretical understanding and hands-on application, enabling students to effectively analyze and design electrical systems.

Suttipong's research interests in optimizing the operation of multi-energy systems, with a particular focus on renewable energy integration, hydrogen storage management, and energy efficiency improvement. His work explores advanced optimization techniques for scheduling energy resources to minimize costs, carbon emissions, and system losses. He is also interested in developing robust models for energy systems under uncertainty, ensuring stability and reliability in future smart grids. Through his research, he aims to contribute to the advancement of sustainable energy solutions and the transition toward low-carbon power systems.