Title: Yanxu Microgrid Simulation Platform
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This research topic aims to develop microgrid solutions for integrating renewable energy resources into modern distribution networks and promote multi-energy (electric and thermal) systems.

The complete simulation model has been developed in MatLab SimuLink with seamless integration of the power subsystem and the communication subsystem.

Professional-grade simulation platform for designing, analyzing, and optimizing complex microgrid systems with renewable energy integration, energy storage, and smart grid technologies.

This provides a unique platform for investigating the interplay between microgrids and macrogrids, both grid-connected and island operation modes, as well as the transition between the two operation modes.

New project: "Platform for Interconnected Microgrid Operation (PRIMO)", collaborating with EDF Lab Singapore, TUMCREATE (Technical University of Munich, Singapore), and SIT.

This recommendation suggests new models and simulation tools that enable dynamic simulation of microgrids that have unbalanced load distributions, different types of DERs, and loads with various ...

High-fidelity platform for EMT simulation, SIL and HIL testing, ideal for validating control, protection, grid integration and large-scale stability across all stages of power system development.

?Cham Tao Soon Professor in Engineering, Nanyang Technological University, Singapore? - ??Cited by 27,828?? - ?Microgrids? - ?Smart Grid? - ?Power System Stability? - ?AI for Power?

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