Based on DSP microgrid controller development

This article presents a dSPACE-control-platform-based implementation of a fixed-switching-frequency modulated model predictive control (M PC) strategy, as an inner controller of a two-level, three ...

This paper contains a novel development of a microgrid controlling platform to achieve distribution system resiliency and sustainability, performed by Smart Grid Research Lab (SGRL), University of ...

In this paper a control system/controllers based on DSP processors for energy management system of Micro-grid, is proposed. Processors and controllers are ...

This paper used passive filters (PF) and designed shunt active power filters (SAPFs) with two rife control methods: repetitive-based Control in MATLAB/Simulink environment method and also DSP-based ...

This repository contains the hardware design, schematics, and system description of a low-voltage DC microgrid experimental bench. The platform was developed to validate converter design, hierarchical ...

These results confirm the effectiveness of the proposed optimization-based control strategy for next-generation hybrid microgrids.

Effectiveness of the proposed controller to generate PWM control signal is analyzed with MATLAB Simulation and implementing it on DSP processor with the help of code composer studio.

A microgrid controller with general rule-based dispatch in compliance with the standards IEEE Std 2030.7 and IEEE Std 2030.8, are presented in this paper. The following conclusions are ...

In this paper, an algorithm is presented to control an inverter and make it complete and versatile to work in grid-connected and in isolated modes, injecting or receiving power from the grid ...

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