

## PEES Power Systems

# Microgrid UI interface

## System Topology



## Overview

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Provides graphical user interface (GUI) to all control elements to simplify operator interactions with the distributed energy resources. The Microgrid Interface Unit (MIU) is designed to change that. The MMC-M integrates a variety of traditional and renewable energy sources within a microgrid by providing optimized monitoring and control. The PowerCommand Microgrid Control. This is a research project under the California Renewable Energy Laboratory (CREL) Microgrid Dashboard Project in collaboration with the Kern Community College District (KCCD), University of California, Riverside (UCR), and the Weill Institute. There are three groups involved in this project: The.

## Microgrid UI interface

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### **Cat® Microgrid Master Controller-Medium (MMC-M)**

Provides graphical user interface (GUI) to all control elements to simplify operator interactions with the distributed energy resources. Includes system visualization and user interface for manual or ...

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### **Microgrid Interface Unit , BMT smart grid and renewable energy ...**

Acting as a simple, modular control platform, the MIU brings all your energy sources together -- from diesel and batteries to solar, wind, or even tidal power. It removes the need for expensive custom ...



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### **Weill Institute Microgrid Dashboard GUI**

The purpose of this program/website is to create a graphical user interface dashboard for the Weill Institute's microgrid to demonstrate information regarding the building's usage of power in real time.



## Microgrid Control , Cummins Inc.

The new microgrid controls accommodate distributed energy power system designs and have the ability to control renewable energy resources (solar and wind) and energy storage - providing a single ...



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## A Microgrid Dashboard and Interface



We wanted to represent the microgrid layout, without entering too much detail. This dashboard was not the controller - it simply provided summary information to the user. This layout worked well with a ...

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## Solved: Creating a User Interface for Microgrid

Currently, I am working with Node E in my main frame. The switch will display CLS (Red) and the LED will light up in Red when the connection between the load at Node E and microgrid is ...



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## GridMaster® Microgrid Control System



The user-friendly interface allows the operator to intuitively view and interact with the microgrid. Operators can customize the interface to user preferences, allowing for easy system operation.

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## Smart Grid Power Electronic Interfaces

A microgrid is a localized grouping of electricity sources and loads that can operate independently of the traditional centralized grid. The core component that enables this functionality is the power electronic ...

### ESS



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## Microgrid Controls & Interface , Energy Resilience , ElectronsX

The control and interface layer is what enables real-time balancing of supply and demand, smooth transitions between grid and islanded mode, and full visibility into all distributed energy resources ...

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