

National policy on grid-connected inverters for mobile energy storage sites





Overview

What is essential grid operations from solar?

The Essential Grid Operations from Solar project is a national laboratory-led research and industry engagement effort that aims to expedite the development and adoption of reliability standards for inverter-based resources.

Why do we need new grid reliability standards?

As more IBRs connect to the grid, new grid reliability standards need to be developed to help ensure that the IBR technologies and their impacts to the grid are understood and accepted by the IBR facility operators, equipment manufacturers, and utilities.

What are inverter-based energy resources?

ble energy resources—wind, solar photovoltaic, and battery energy storage systems (BESS). These resources electrically connect to the grid through an inverter— power electronic devices that convert DC energy into AC energy—and are referred to as inverter-based resources (IBRs). As the generation mix changes, so do the electrical character.

How does the National Laboratories impact the power grid?

These standards will impact the design, manufacture, testing, and certification of equipment, as well as their performance, interconnection, and operation in the nation's power grid. The National Laboratories have the resources and expertise that enable them to conduct analysis, simulation, and testing of IBR equipment and control software.



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