

**PIENAAR ENERGY (PTY) LTD**

# **Microgrid National Patent**



## Overview

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This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Microgrid-related invention patents and utility model patents, which can be searched for their Microgrid-related patent. This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Microgrid-related invention patents and utility model patents, which can be searched for their Microgrid-related patent. A microgrid is a portion of an electric grid configured for separate management and control as compared with the rest of the grid and having attributes that can be tailored to meet specified needs including the needs of electric power consumers served by the microgrid. Field of the Invention The. In one example, a microgrid includes a microgrid controller, a primary junction, a high-voltage supply line, a high-voltage output line, one or more switchgear connecting the primary junction to at least one other component of the microgrid, a plurality of photovoltaic (PV) panels, a breaker. Patsnap Eureka AI that helps you search prior art, draft patents, and assess FTO risks, powered by patent and scientific literature data. At least one of the microgrid assets comprises a different type of asset than another one of the microgrid assets. Each power source includes an electrical output. The. Authorized by Section 40101(d) of the Bipartisan Infrastructure Law (BIL), the Grid Resilience State and Tribal Formula Grants program is designed to strengthen and modernize America's power grid against wildfires, extreme weather, and other natural disasters that are exacerbated by the climate.

## Microgrid National Patent

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### US20220140614A1

The technology described herein can be used in many different applications, including, for example mining, utility power, oilfield applications, industrial application, and any application that

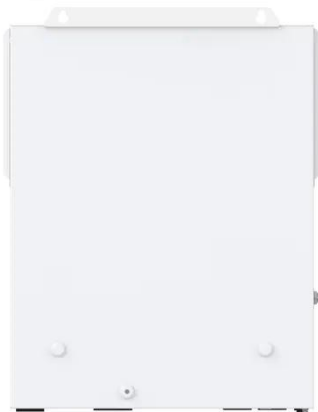
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### US20130015703A1

SUMMARY OF THE INVENTION [0008] The present invention provides a microgrid for use with one or more power sources such as grid interconnections. In various embodiments, the microgrid is



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### US20150039145A1

The instant application relates to microgrids, and more particularly to controlling operation of microgrids.

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## Microgrid patented technology retrieval search results

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## U.S. Patent Application for MICROGRID Patent Application

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Embodiments described herein relate to a microgrid used to generate and store electric power locally and configured to connect to an electric power utility source of electricity.

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## Microgrid Overview

A 2018 study conducted by the National Renewable Energy Laboratory found that microgrids in the Continental U.S. cost an average of \$2 million-\$5 million per megawatt.

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## Research on microgrid control technology based on patent analysis

Search on patent applications for



microgrid control technology was conducted on a global scale, analyzing the development lifecycle, main applicants, technology development direction, important ...

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### System and method for controlling microgrid (Patent) , OSTI.GOV

A system for controlling a microgrid includes microgrid assets and a tieline for coupling the microgrid to a bulk grid; and a tieline controller coupled to the tieline. At least one of the microgrid ...



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### United States Patent and Trademark Office

Under this new initiative, certain pending utility patent applications that have no more than one independent claim and ten total claims may be advanced out of turn for their first Office action.

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## MICROGRID NETWORK CHARACTERIZATION

The '648 patent describes a mechanism

by which dispatching power from power sources on a power grid may be controlled responsive to changes in the output of one or more other power ...

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