



# Patented Microgrid

A microgrid controller for controlling one or more edge units in a distributed energy system is presented. In some embodiments, the microgrid controller communicates with one or more network adjacent edge units, each of the one or more network adjacent edge units being coupled to a power grid, determines an instruction set to execute with the one or more network ...

The centerpiece of the microgrid is Hover's patented 36kW wind turbine. Installed as an array on the windward edge of a building's roof, the ground-breaking aerodynamic design uses the building as ...

Air is a 24/7/365 source of high-density energy when harnessed using Castor Energy's patented microgrid, dual-extraction energy and water technology. Utilizing solar as a secondary source of power, the AMPP enables both high- and low-density power extraction without ever having to burn fuel. A combined heat and power (CHP) system, the por

Entrust Microgrid specialise in the development and sale of smart, innovative microgrid systems and products, for the built environment, supplying power for uninterrupted power supplies and /or DC ...

The asset controllers 31 of each of the first and second microgrid 1a and 1b comprise DG controllers 42a and load controllers 43a of the first microgrid 1a, and DG controllers 42b and load controllers 43b of the second microgrid 1b, as well as feeder controllers 41a and 41b, respectively, for each microgrid, for controlling said microgrid and bring it to the selected ...

A microgrid is a distribution network that incorporates a variety of distributed energy resources (DER) that can be optimized and aggregated into a single system. The integrated system can balance loads and generation with or without energy storage and is capable of islanding whether connected or not connected to a traditional utility power grid.

A microgrid system includes a plurality of power sources and a switchgear trailer. Each power source includes an electrical output. The switchgear trailer includes a plurality of inputs and at least one output. Each input is electrically connected to a respective power source electrical output. The system may also comprise a controller configured to obtain one or more ...

Entrust Microgrid has patented smart microgrid control systems, energy management system and EV charging systems that operate at highest efficiency and lowest operational cost. In addition, we both design and supply smart ...

Our renewable energy powered microgrid, found at two of our terminals, uses a patented, groundbreaking process that takes wind and solar energy into a battery system and the subsequent distribution of that power to



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points of use. We received the patent for this process in 2020. The idea for renewable energy began in 2012 with solar installation at the company's ...

Microgrids play a crucial role in the transition towards a low carbon future. By incorporating renewable energy sources, energy storage systems, and advanced control systems, microgrids help to reduce dependence on fossil fuels and promote the use of clean and sustainable energy sources. This not only helps to mitigate greenhouse gas emissions and reduce the [...]

These seven white papers constitute the DOE Microgrid Program Strategy. OE sponsored the DOE Microgrid R& D Strategy Symposium on July 27 to 28, 2022, to seek input and feedback on the seven white papers from broader microgrid stakeholders. The symposium featured presentations, panel discussions, and group discussions on each white paper.

Advanced engineering and more than 100 patents put Capstone microturbines in a class of their own. By integrating an aero-based turbine engine, a magnetic generator, advanced power electronics, with patented air bearing technology, Capstone microturbines are the ideal solution for today's distributed energy needs.

Key Patent in Biodegradable Plastics The System That Enables Smart Micro Networks To Work Independently With Distributed Battery Systems (TR2021021826A2) A ...

According to an embodiment of a microgrid energy management system for controlling operation of a microgrid which comprises a plurality of distributed energy resources including controllable...

WiSys, the technology transfer arm of the 11 UW System regional comprehensive campuses, was recently awarded a U.S. patent for an invention disclosed by Dr. Fang Yang, associate professor of electrical and ...

Patents & Trademarks; Contact; About Microgrids. ... Microgrids can deliver and/or dispatch power directly to users, and connected microgrids can supplement power coming from traditional utilities. It can provide back-up energy when the utility grid goes down, and give users more control over how they consume and pay for their power. ...

A control method performed in a microgrid. The microgrid includes at least one electrical power source and/or configured for injecting electrical power into the microgrid, a first point of common coupling (PCC) configured for allowing a first power flow between the microgrid and a first power grid, and a second PCC configured for allowing a second power flow between the microgrid ...

Our turbines will be created explicitly for the Terravis Energy Microgrid, and will operate in the range of 30 to 50 KW each. The Terravis Energy patented Microgrid System also provides exclusive access to BESS, our proprietary Battery Energy Storage System customized to each client's specific needs for storage and power delivery.



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The Hover Wind-Powered Microgrid(TM) features a combination of wind and solar energy generation. The centerpiece of the microgrid is Hover's patented 36kW wind turbine. Installed as an array on the windward edge of a building's roof, the ground-breaking aerodynamic design uses the building as a sail and delivers commercial scale power.

Entrust Microgrid is dedicated to research, system design and product development in smart microgrid based on patented Entrust Smart Microgrid Technology, offering an innovative hybrid DC/AC power system solution for both domestic and commercial buildings that maximises the benefits of embedded solar PV system, energy storage and controllable DC loads on the DC ...

1. A system, comprising: a non-transitory memory having instructions stored thereon and a processor configured to execute the instructions to: receive a plurality of parameters corresponding to at least one microgrid; predict one or more outages of the at least one microgrid, wherein the one or more outages are predicted by a trained machine learning ...

Systems and methods for integrating ultra-fast programmable networks in microgrid are disclosed to provide flexible and easy-to-manage communication solutions, thus enabling resilient microgrid operations in face of various cyber and physical disturbances. The system is configured to establish a novel software-defined networking (SDN) based communication architecture which ...

Illustration of Microgrid Concept - Courtesy of Berkeley Lab. The United States Department of Energy Microgrid Exchange Group defines a microgrid as a group of interconnected loads and distributed energy resources (DERs) within clearly defined electrical boundaries that acts as a single controllable entity with respect to the grid. A microgrid can ...

The microgrid coordinator is used to forecast the microgrid's demanded load more accurately, and assign asset commands so as to optimize microgrid consumption, generation, and storage of load. The method and system incorporate a valuation of dispatchable load in optimization functions. ... 2015-03-17 Priority to US14/660,312 priority Critical ...

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