

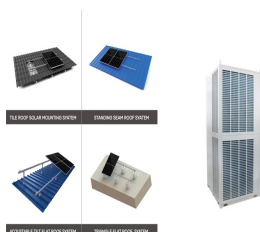
NEW CALEDONIA GRIDSTAR FLOW BATTERY



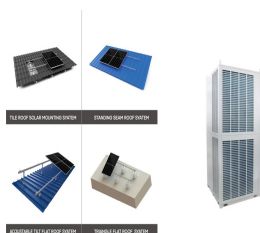
What is GridStar Flow energy storage? GridStar(R) Flow energy storage is a fully-integrated energy storage system designed by Lockheed Martin Energy to optimize battery performance with greater durability, flexibility, and value.



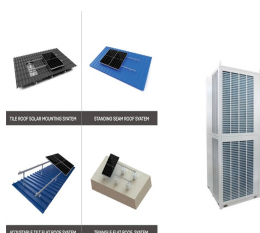
What is Lockheed Martin gridstar flow? Discover Lockheed Martin's GridStar Flow, a cutting-edge energy storage system offering efficient, scalable solutions for diverse power needs.



What is Lockheed Martin energy's gridstar(R) energy storage solution? Lockheed Martin Energy's GridStar(R) energy storage solution consists of two core offerings: GridStar(R) Flow for long-duration energy storage. GridStar(R) Lithium is another offering for short and medium-duration energy storage.



What is a GridStar Flow system? GridStar(R) Flow systems are a type of energy storage system optimized to offer low total cost of ownership over the system lifetime.



What makes gridstar(R) flow different from other flow batteries? GridStar(R) Flow is different from other flow batteries because it is based on a patented coordination chemistry framework, not on a single set chemistry like Vanadium or Zinc-Bromine. This provides the basis for a new electrochemistry consisting of engineered electrolytes.

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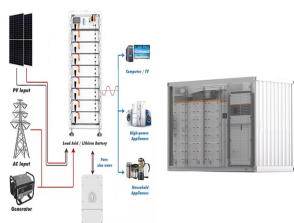
Can a flow battery provide power during ill-timed grid outages? Paul Farnan, deputy assistant secretary of the Army (Installations, Energy and Environment), touted the flow battery's potential to provide essential power during ill-timed grid outages: "We need to be able to operate no matter what's going on outside of the fence line."



Crew's mistakes sank New Zealand navy ship off Samoa, inquiry finds team is celebrating the construction and installation of the GridStar Flow system, a redox flow battery solution designed for long-duration, large-capacity energy storage applications. The flow system is installed at Fort Carson, Colorado, and ERDC has led the technical



Invinity Energy Systems will supply vanadium redox flow battery (VRFB) technology to a solar-plus-storage project in Alberta, Canada. which will hold an equity interest in the Chappice Lake project and the community will also benefit from the new electricity capacity addition as well as employment opportunities the clean energy industry can



(R) Flow is a coordination chemistry flow battery for short and long duration energy storage NUCLEAR INSTRUMENTATION & CONTROLS Safety critical instrument and controls systems to 95,000 sq. ft. includes GridStar Flow New Product Introduction, Engineering, Manufacturing, and Supporting Functions



GridStar(R) Flow, an innovative redox flow battery. Combining three separate operations into one, the GridStar Flow program recently moved to a cutting-edge facility in Andover, Massachusetts, where employees in labs, production and program management will collaborate to drive this new technology in long-duration energy storage.

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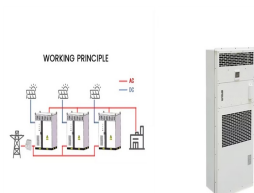
GridStar Flow For longer duration applications, we are pioneering innovative long-duration flow battery systems. Flow batteries can achieve low cost at long discharge times if the technology is designed right. Our coordination chemistry flow battery (CCFB) systems are designed to provide flexible, durable, long-duration energy storage for



While the small handful of flow battery companies already out there in the market tend to favour either vanadium or zinc bromine, Lockheed is keeping tight-lipped still on the makeup of the proprietary electrolyte its GridStar Flow products will use. Norton was however, more explicit on the type of projects Lockheed Martin will be going after.



A megawatt-scale unit of the aerospace and defense technology company's GridStar Flow flow battery energy storage system will provide back up power in case of grid outages and reduce fossil fuel consumption at the facility.



Fort Carson has been a net zero showcase for the Army since 2011, and the new Lockheed "Gridstar" flow battery fits neatly into the decarbonization picture. It will undergo a two-year test in

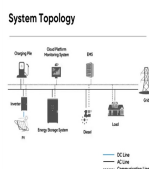


Together with LM Energy's systems integration experience and intelligent control platform, GridStar Flow establishes the new standard in energy storage durability, flexibility and safety. LM Energy's GridStar Flow is an innovative redox flow battery designed to be a durable, flexible and safe long-duration energy storage solution.

NEW CALEDONIA GRIDSTAR FLOW BATTERY



Martin Energy as GridStar Flow, the Coordination Chemistry Flow Battery (CCFB) technology delivers a fully-integrated energy storage system designed to serve 1 MW to >100 MW utility applications. Unlike other flow batteries, GridStar(R) Flow is based not on one set chemistry (e.g., Vanadium or Zinc-Bromine), but on a patented coordination chemistry



Flow batteries: Design and operation. A flow battery contains two substances that undergo electrochemical reactions in which electrons are transferred from one to the other. When the battery is being charged, the ???



U.S. defense contractor Lockheed Martin and Oradea-based Romanian chemicals producer Sinteza S.A. signed on Wednesday a letter of intent for the construction of a zero-carbon GridStar Flow battery factory in Oradea, which will make sustainable and stable energy possible, the Romanian company said in a release.



GRIDSTAR(R) FLOW MEDIA KIT 9 GSF NEWS Energy Storage News By Andy Colthorpe Lockheed Martin putting long-duration flow battery at US Army's Fort Carson Popular Science By Rob Verger How the massive "flow battery" coming to an Army facility in Colorado will work Lockheed Martin To Build First Long-Duration Energy Storage System for U.S



GridStar Flow is capable of 100% depth of discharge (DoD) with minimal degradation and long lasting durability. And it's cost competitive, durable, and has a design life of 20 years. It is also a non-corrosive, non-flammable, stable electrolyte. Therefore, Lockheed Martin is also a member of the top 10 flow battery companies in the world.

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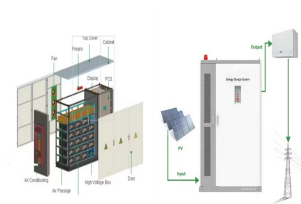
Lockheed Martin Energy has developed what it calls "the world's most advanced flow battery". GridStar(R) Flow provides long-duration storage ??? with superior durability, flexibility and safety ??? backed by the engineering ???



US aerospace and advanced technologies giant Lockheed Martin has installed the first commercial product variant of its GridStar Flow, a redox flow battery designed for long-duration, large



GridStar Flow Serial Number One (S/N01) was built at Lockheed Martin's new 95,000 square foot facility Andover, Massachusetts where it will undergo extensive testing. The company said it is an internal asset that will be used to test the energy storage system's ability to meet customers' needs for customer-sited, long-duration, large



About GridStar Flow is an innovative redox flow battery solution designed for long-duration, large-capacity energy storage applications. The patented technology is based on the principles of coordination chemistry, offering a new electrochemistry consisting of engineered electrolytes made from earth-abundant materials.



Lockheed Martin breaks ground with GridStar Flow battery manufacturing facility in Oradea. U.S. defense contractor Lockheed Martin and Oradea-based Romanian chemicals producer Sinteza S.A. signed on Wednesday a letter of intent for the construction of a zero-carbon GridStar Flow battery factory in Oradea, which will make sustainable and stable energy possible, the ???

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Lockheed Martin Advanced Energy Storage, LLC is now moving their flow battery into testing of the commercial product. The technology is described as "a redox flow battery based on the principles of coordination chemistry. This new electrochemistry consists of engineered electrolytes made from earth-abundant materials".



GridStar Flow is an innovative, redox flow battery designed to advance clean energy affordability and sustainability. Made in Andover, Massachusetts, and engineered for the future of energy, GridStar Flow operates under zero carbon emissions and enables resilient, secure energy. This flow battery is designed to address new disruptive



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The U.S. Army is testing a new flow battery from Lockheed Martin at Fort Carson in Colorado. Flow battery technology features electrolyte storage for long-duration, large-capacity clean energy



GridStar Flow FLEXIBLE, LONG-DURATION, ENERGY STORAGE TO ENABLE LOW-CARBON, RELIABLE, RESILIENT ELECTRICITY GridStar Flow is an innovative redox flow battery designed for long-duration, large-capacity energy storage applications, to address the new, disruptive challenges faced by the electric sector and enable clean, reliable, and secure energy.

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GridStar Flow | Product Overview 12 ALPHA Unit: Power: 250 kW AC Energy: 500 kWh (2-hour) 2017-18: ~1 year of testing BETA Unit: Power: 250 kW AC Energy: 1500 kWh (6-hour) 2018-20: ~ 1 year of testing GridStar Flow S/N01: Power: 250 - 500 kW AC Energy: 2.5 MWh (5 -10 hour) 2020-22+: 2+ years of testing GridStar Flow System Prototypes



ANDOVER, Mass., Feb. 14, 2024 ??? On Feb. 8, the Lockheed Martin (NYSE: LMT) Energy team hosted the Romanian Minister of Energy, Sebastian Burduja, for discussions on how the GridStar Flow(R) battery can help Romania with its net zero goals, and to sign a letter of energy collaboration. "Lockheed Martin's GridStar Flow aligns with our goals and objectives for ???