

nVent Solutions for Grid-Scale Energy Storage Infrastructure

As energy storage becomes increasingly vital in meeting the world's growing energy demands, nVent's range of innovative products offers engineer and design firms the means to enhance the performance, safety and reliability of grid-scale energy storage systems. nVent is the leading provider of grounding, bonding and power connection solutions for energy storage applications compliant with UL 9540 or the IEC 62933 series of standards.



Secure

Our innovative solutions are designed to endure the most challenging environments ensuring your assets are protected in the long run.



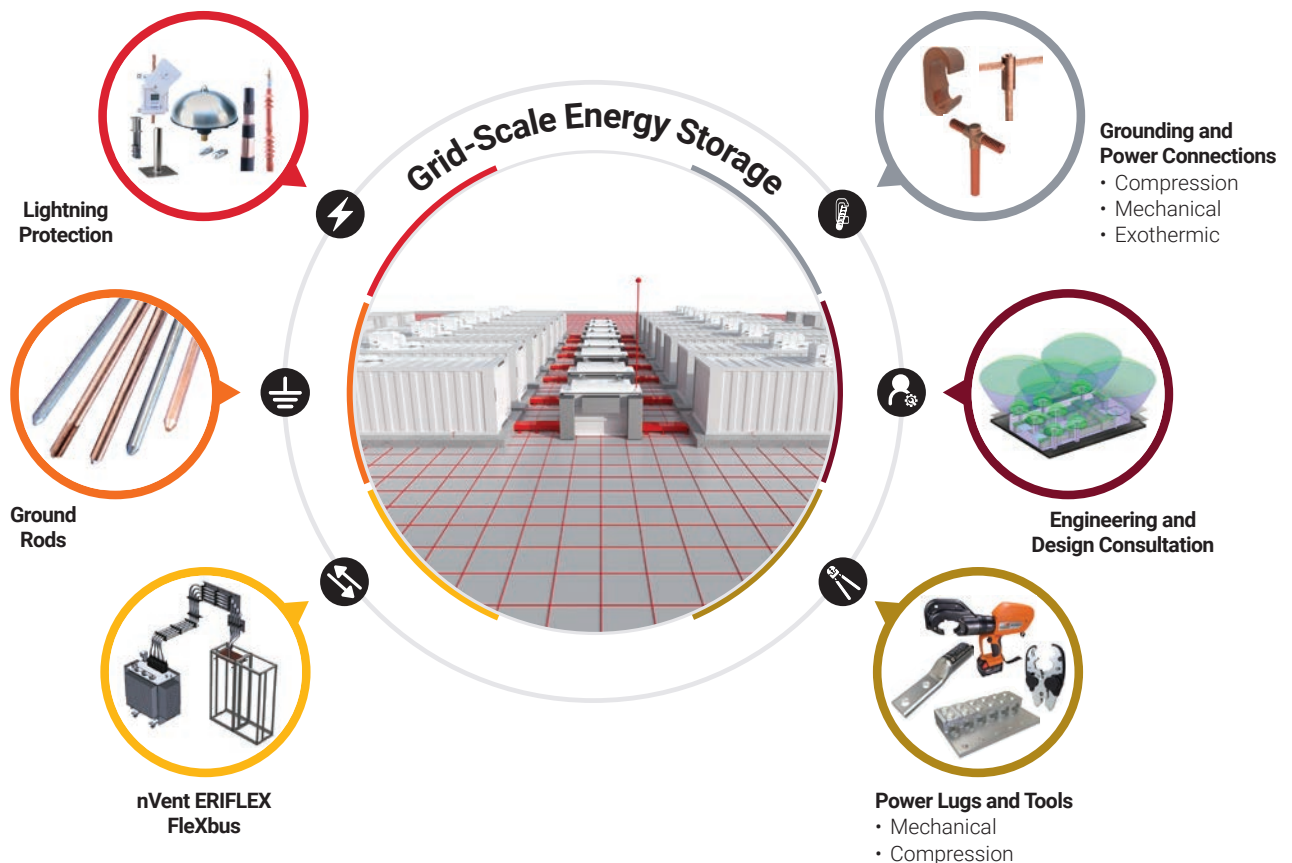
Safe

Our turnkey solutions are designed and tested to keep people safe.



Simple

Our system approach offers our breadth of solutions and keeps it simple for the installer.



nVent Energy Storage Solutions

POWER INTERCONNECTIONS

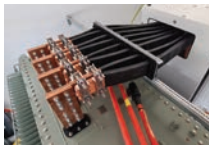
nVent ERIFLEX Flexbus System

nVent ERIFLEX Flexbus is an innovative and patented connection solution between two electrical equipment installations. Due to its unique concept, it is an alternative power connection solution for up to **50% quicker installation and 20% reduction** in total installed cost at a minimum.



- Flexible insulated copper-plated, aluminum flat braid
- Better current/ampacity than cable due to skin effect
- More flexible than cable and no bending radius to respect
- Ready-to-use from one side with direct connection on busbar or circuit breaker palm

nVent ERIFLEX Flexbus Configurator



nVent offers configuration software that ensures you have the right products, tools and installation knowledge to make your project easy, safe and accurate.

Power Connections



- Enables secure and reliable connection of low voltage wires directly underground, providing an interface for joining multiple wires
- Designed to withstand moisture, temperature fluctuations, and mechanical stress

GROUNDING SOLUTIONS

nVent ERICO experts can assist engineers and designers with selecting the right solutions for their projects.

Grounding and Bonding System Designs

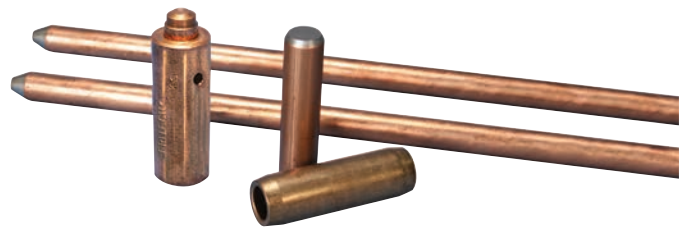
nVent ERICO experts can assist in designing and selecting the appropriate grounding and bonding components for projects, import and export 2D drawings directly into design submittals, and add product details in 2D based on custom-tailored designs.

Grounding Takeoffs

Dedicated teams of application engineers and designers are available to create complete takeoffs for your grounding and bonding, lightning protection or surge protection designs.

Copper-Bonded Ground Rods

- Manufactured straighter with a harder steel core, making installation easier
- Continuous electro-plating process imparts a consistent, high quality copper coating which provides superior corrosion resistance and decades of reliable performance in service



nVent ERICO Cadweld Exothermic Welding Systems

- Exothermically welded connections engineered to provide a permanent, molecular bond that will not loosen or corrode.
- Has a current carrying capacity equal to or greater than that of the conductor and will withstand repeated fault currents without failing during operation.



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nVent ERICO Hammerlock and Lay-in Hammerlock

- Easy-to-install mechanical connection for grounding conductors to ground rods, eliminating the need to feed conductors through the connector
- Simple installation whether tapping into an existing grounding grid or installing new conductors on ground rods



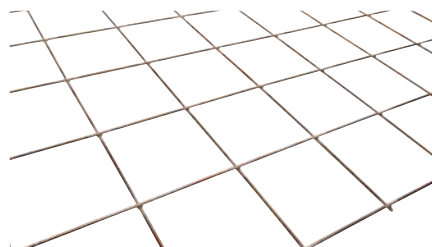
nVent ERICO Permaground Compression Connectors

- Safe and reliable above-grade and direct burial applications
- Connector versatility provides designers and installers the freedom to customize grounding grids for unique site requirements



Ground Mats and Mesh

Prefabricated solutions that are high quality, cost effective and safe – essential for reducing step potentials at power plants and substations.



LIGHTNING PROTECTION

nVent ERICO offers a comprehensive portfolio of conventional and proprietary lightning protection systems (active and passive lightning protection systems):

Full system consisting of air terminal, down conductor, mounting masts and lightning event counter.

Product lines include:



nVent ERICO System 1000

- Early Streamer Emission (ESE) Lightning Protection System compliant with NFC 17-102

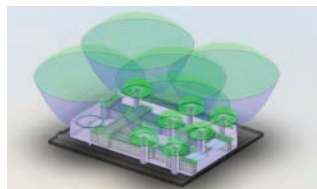
nVent ERICO System 2000

- Rolling Sphere Method Lightning Protection System compliant with European IEC 62305, USA UL 96, NFPA 780 Standards

nVent ERICO System 3000

- Collection Volume Method Lightning Protection system recognized by IEEE 998

Lightning Protection System Design Assistance



- Assist in designing and selecting the right lightning protection system for your project
- Import and export 2D and 3D drawings directly into your design submittal
- Add product details in 2D and 3D based on your custom-tailored design

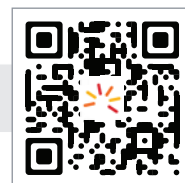
nVent Energy Storage Solutions

NVENT ILSCO TASKMASTER TOOLS

nVent offers a full line of high quality cutting and crimping tools for use in electrical installations. nVent ILSCO TaskMaster Tools are high performance, durable, and versatile. nVent ILSCO also offers a 5 year tool warranty, 5 day repair pledge, loaner tool program and the first reconditioning of the tool performed at no charge.



Learn more about nVent Energy Storage at: nVent.com/energy-storage



Our powerful portfolio of brands:

CADDY ERICO HOFFMAN ILSCO SCHROFF TRACHTE