

nVent Solutions for Utility-Scale Solar

As solar power continues to account for a significant volume of all-new electrical-generating capacity, nVent is enabling customers to achieve their grid modernization goals more efficiently. Renewable energy infrastructure demands stronger, more dependable electrical system connections to ensure safe and productive operations.



Secure

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



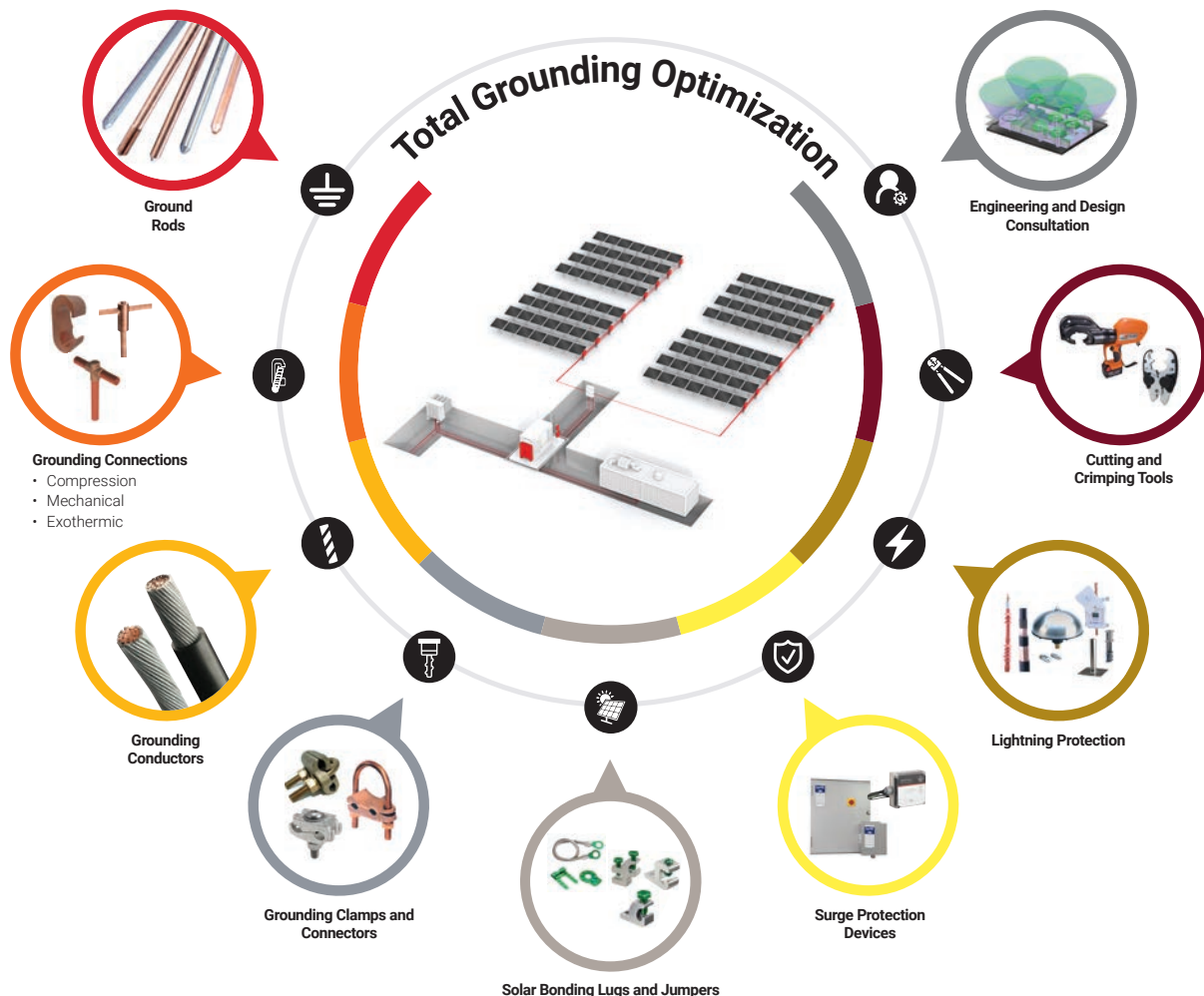
Safe

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



Simple

nVent offers an entire system approach to solar solutions with an offering that makes things simple for the installer.



nVent Solutions for Solar Power Stations

GROUNDING SOLUTIONS

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

Grounding and Bonding System Designs

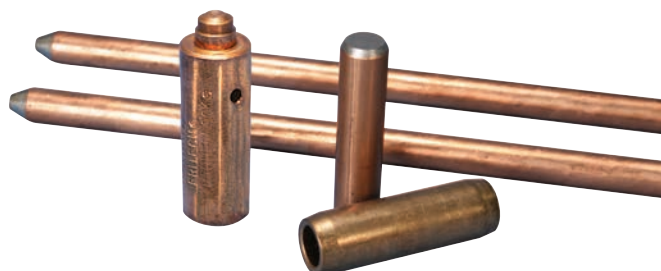
nVent ERICO experts can assist in designing and selecting the appropriate grounding and bonding components for projects, import and export 2D drawings directly into design submittals, and add product details in 2D based on custom-tailored designs.

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



nVent ERICO Ground Enhancement Material

- nVent ERICO offers a line of ground enhancement material to improve conductivity of high-resistivity native soil sites
- nVent ERICO GEM: A cement-based conductive material ideal for challenging soil conditions like rocky ground or sandy soil
- nVent ERICO Quickfill (No-Mix Ground Enhancing Backfill): A convenient, pre-mixed and low-dust solution for improving grounding



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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



Solar Bonding Lugs and Jumpers

- Conductive fasteners that are used to secure a grounding conductor
- Prevent galvanic reaction and enhance conductivity, and are dual rated for copper or aluminum conductor
- Electro-tin plated for low contact resistance, and feature serrations in the conductor wire way to cut oxidation



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

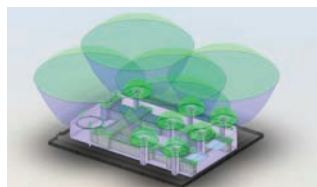
nVent ERICO System 2000

- 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 Solutions for Solar Power Stations

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 Solar product offerings at: nVent.com/renewable-energy



Our powerful portfolio of brands:

CADDY

ERICO

HOFFMAN

ILSCO

SCHROFF

TRACHTE