

nVent Engineering and Design Assistance



Trust Expert nVent Engineering

In addition to high quality products, nVent offers engineering and design support through a range of services and capabilities. nVent partners with its customers to simplify complex projects.

nVent offers:

- Grounding System Design Assistance
- Lightning Protection System Design
- Lightning Protection Site Surveys
- Earthing System Site Surveys
- Building Information Modeling (BIM)
- Seismic Design Services
- Customized Products
- Testing and Validation
- Product and Application Training

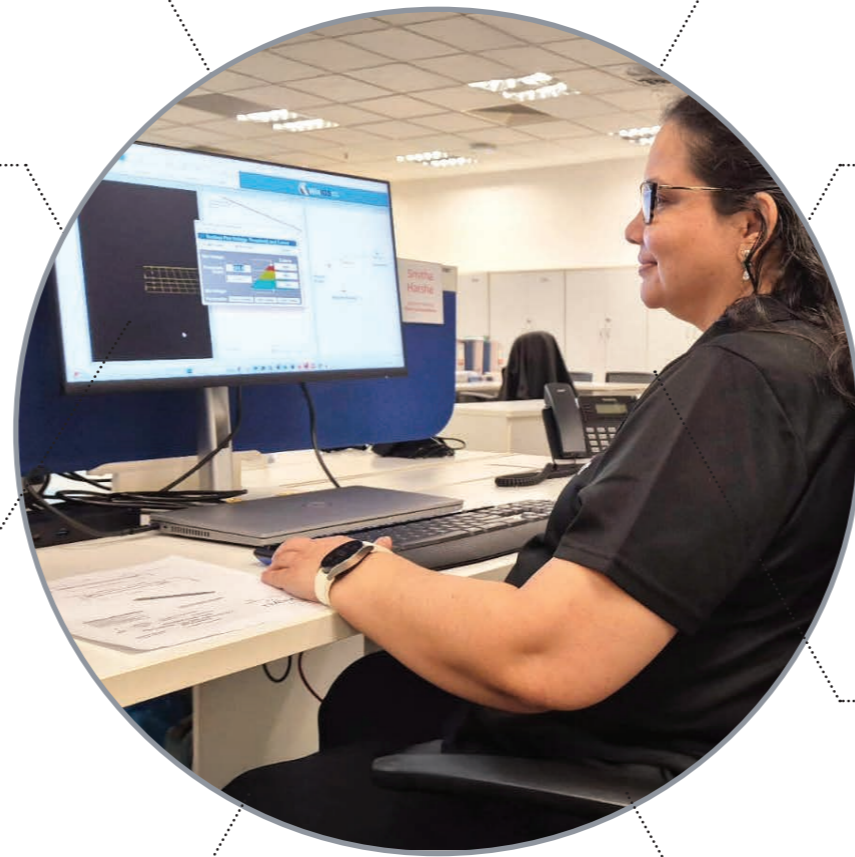
Throughout our powerful portfolio of brands, nVent has been a trusted partner to electrical engineers and contractors for over 100 years. nVent connection and protection solutions are an integral part of electrical systems across a range of industries including data centers, renewable energy, battery energy storage systems (BESS), commercial and industrial buildings, railway signaling, and utilities. Explore the full nVent support offering on the following pages.

Expert support from nVent:

- Time savings and accuracy during design and installation
- Trust our decades of experience
- Peace-of-mind asset protection
- Optimized performance and long-term reliability
- Safety for personnel and the public

nVent Electrical Connections

Efficiency, Accuracy and Resilience Made Easy



Engineering and Design Assistance

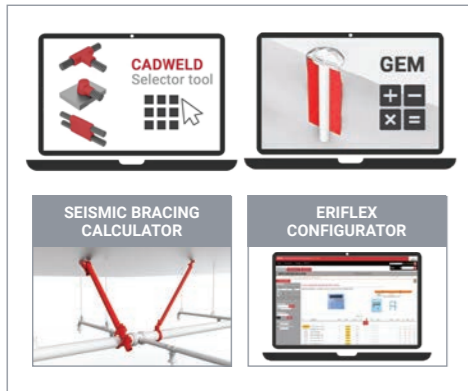
Grounding System Design Assistance

- nVent ERICO helps its customers overcome grounding challenges and reach desired resistivity levels
- nVent utilizes WinIGS modeling and can import/export 2D drawings directly into the customer's design submittal
- nVent adds product details in 2D based on the customer's custom-tailored design



nVent Software Solutions

- nVent offers powerful software tools to streamline design, calculation, and product selection. Built for accuracy, efficiency, and industry compliance—on-site or online. Powered by nVent CADDY, ERICO, ERIFLEX, and LENTON.



Lightning & Surge Protection Design Solutions

- Lightning Protection: Full system design with certified engineers using advanced LPSD 4.0 software for accurate, detailed plans.
- Surge Protection: Custom schemes tailored to your application, meeting IEC, Australian, or other standards.



Power Connections Design Services

- nVent ERIFLEX delivers low-voltage power distribution solutions like Flexibar and FleXbus, ensuring flexible, reliable connections for electrical systems. With MTO capability in Sydney, we offer quicker response times for Asia Pacific projects.



Electrical Protection Site Surveys

- The nVent ERICO engineering team is available to conduct site surveys and recommendations for lightning protection, surge protection, and grounding and bonding
- Site surveys are a valuable tool when troubleshooting issues
- Includes technical support for power quality issues



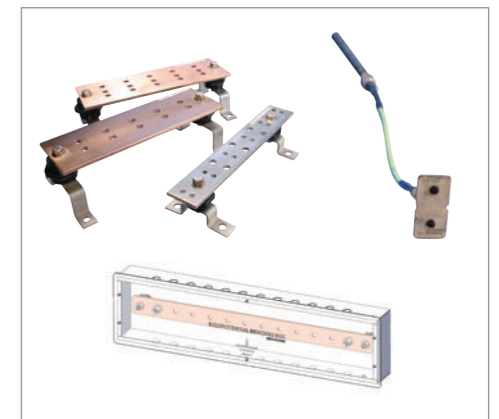
Seismic Design Services for MEP and Fire Protection Systems

- nVent CADDY offers turnkey seismic engineering services including, seismic layout calculations, PE stamping, and BIM and Rivet models.
- Utilize the nVent CADDY seismic calculator and handbook



Made-to-Order Earth Bonds

- nVent ERICO offers made-to-order (MTO) earth bonds and earth plates to create effective grounding and bonding systems at facilities like rail, power utilities, mining, oil and gas and industrial



Training Programs for Installers

- nVent offers on-site training with completion certificates for processes including crimping and exothermic welding
- Improve installation quality and efficiency by instilling proper technique and best practices for installers in the field



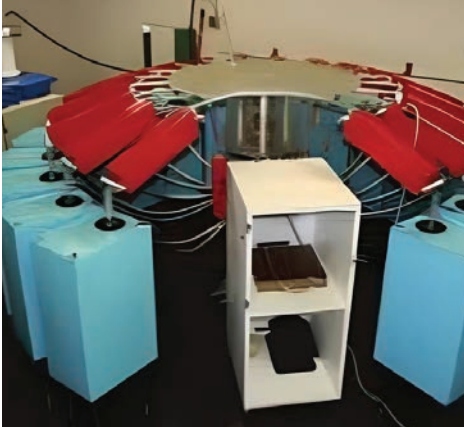
A legacy built on trust and expertise.



Continuing Education for Engineers and Training

We offer continued professional development, application training and industry specific training for power utilities, renewables, energy storage, data center, telecom, rail, mining, oil & gas, commercial and industrial segments. nVent has representations on many standards globally. Subsequently, our training modules have excellent content on the application of relevant standards and what is happening in the world of standards development around the globe.

nVent empowers engineers by delivering high quality technical training.



Testing and Validation

nVent has extensive testing and validation services with several state-of-the-art engineering labs and advanced prototyping capabilities:

- Electrical Engineering Lab
- Mechanical Engineering Lab
- UL/CSA/ANSI Testing Lab
- Prototype Lab: CNC, Forming, Fabrication, 3D Printing

With our extensive testing and validation capabilities, nVent helps ensure code-compliance and confidence in performance.



Our powerful portfolio of brands:

CADDY

ERICO

HOFFMAN

ILSCO

SCHROFF

TRACHTE