nVent

We connect and protect

# Isolated Phase Bus Systems

Designed for optimal performance and efficiency

CADDY ERICO HOFFMAN ILSCO SCHROFF TRACHTE

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# Extensive Experience Developing Advanced Bus Systems

**Designed for applications that demand the highest degree of reliability, nVent Isolated Phase Bus Systems are found in a wide range of environments around the world. Representing a long history of knowledge and expertise in custom-designed products that deliver proven performance, nVent continues to be the preferred option for medium and high voltage bus ducts.**

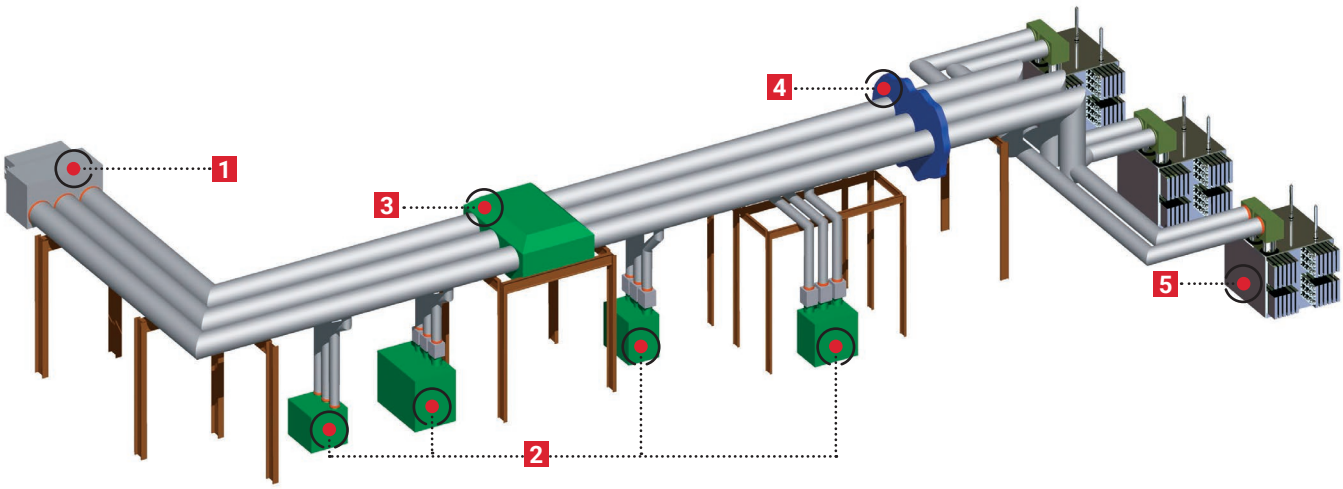
## Engineered for Optimal Performance

With our system design, each phase is mounted in individual enclosures, with conductors that are air insulated and supported in the center phase by strategically arranged insulators. This configuration eliminates phase-to-phase short circuits, and no current is induced in the steelwork, cables, pipes or other metal structures within close proximity to the bus.

## Leading Technology to Reduce Enclosure Voltage

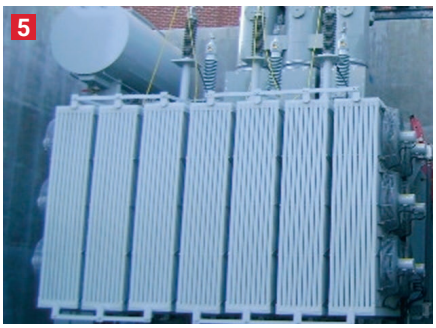
nVent's isolated phase bus systems represent a no-flux enclosure option that minimizes inductive heating and limits the enclosure voltage relative to ground to the IR drop. Because no-flux systems do not require insulation, voltages generated in the enclosure and appearing between enclosure and ground will be at near-zero levels.

1. **Generator Termination**
2. **Potential Transformer/ Surge Arrester Cubicle**
3. **Generator Circuit Breaker Connection**
4. **Firewall and Generator Tie Connection**
5. **GSU Transformer Connection**










## All nVent Isolated Phase Bus and accessories meet or exceed ANSI/IEEE and IEC Standards, including the latest edition of ANSI C37.23

### The Partner Facilities Can Count On

Deployed as generator main leads extending to GSU transformers and excitation service/auxiliary transformers, nVent are a fully integrated, reliable option for multiple applications.

- Hydro plants
- Nuclear power stations
- Combined cycle power plants
- Fossil plants
- Renewable plants

### Unmatched Experience and On-Going Commitment

Having developed products that have connected to nearly every manufacturer's equipment, nVent can custom-engineer standard interfaces to each facility's exact requirements.

- Generation terminations
- Main, auxiliary and excitation transformer connections
- In-line switches
- PT/SA cubicles
- Forced-air cooling systems
- Bus monitoring systems

### Ratings

- Current: 600–26,500 (air cooled)
- Up to 50,000 amps (forced-air cooled)
- Voltage: 15 kV–38 kV
- Insulation Levels: 110–200 kV (BIL)
- Momentary Current: Up to 1,000,000+ amps asymmetrical

### Compliances

- Meets or exceeds ANSI/IEEE and IEC Standards
- All Isolated Phase Bus and accessories meet or exceed requirements as listed in the latest edition of ANSI C37.23 "Switchgear Assemblies including Metal Enclosed Bus".

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Our powerful portfolio of brands:

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