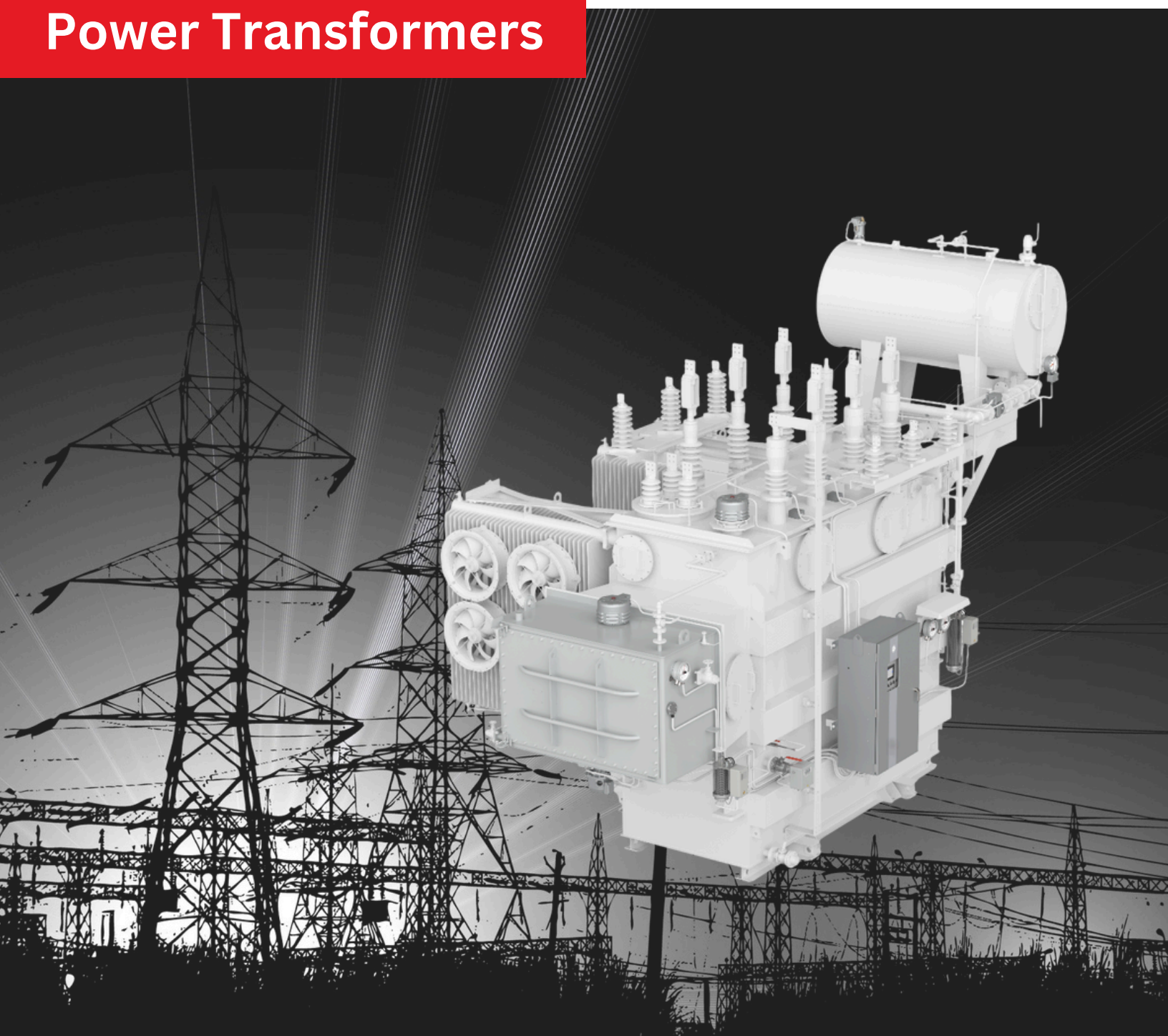




NORTHERN

T R A N S F O R M E R

Power Transformers





OUR COMPANY

Northern Transformer was established in 1981 in Concord, Ontario to manufacture liquid-filled transformers. It quickly established a strong reputation by living up to its motto:

"Quality you can count on from people you can talk to!"

In 2012, Canadian entrepreneur Mr. Giovanni Marcelli purchased Northern Transformer with an ambitious vision to grow the company to fulfil its full potential.

In 2016, we opened a new, state-of-the-art manufacturing facility to raise our capability to produce larger and more complex power transformers for North America.

In 2023, we completed a further expansion including the addition of vertical winding, vapour phase drying, enhanced cleanliness controls and transformer testing capability for up to 240kV class power transformers.



OUR PRODUCTS

Our power transformers cover a range from 20MVA to 200MVA up to 240kV, tailored to the specific needs of each client and complying with CSA, IEEE and IEC standards.

- ✓ Power Transformers
- ✓ Autotransformers
- ✓ Mobiles and Skid Mounts
- ✓ Generator Step-up GSU



Our customized solutions meet our clients' requirements. We use proven technology, robust designs, domestic suppliers and expert workmanship to ensure every product meets our demanding quality requirements for your mission critical applications.



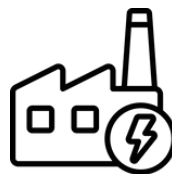
Utilities



Renewables



Nuclear



Industrial



Mining



Petrochemical

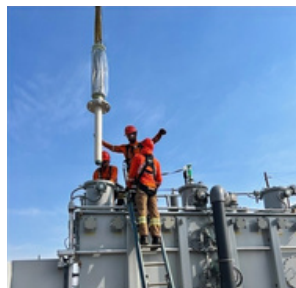


OUR SERVICES

Northern Transformer offers optional services to ensure a stress-free site experience including delivery, offloading, assembly, commissioning, warranty and after-warranty solutions.

Our team has transformer installation experience across extreme weather conditions and navigating the complex site conditions and constraints at North American utility and industry sites.

- ✓ Site Supervision
- ✓ Assembly & Commissioning
- ✓ Aftermarket Sales & Service
- ✓ Storage



EVOLUTION, the transformer's primary control and monitoring system, combines all features into a single cabinet. **EVOLUTION** can also incorporate other client technologies in the primary cabinet.



Advantages

- Open Architecture - Compatible with sensors of any manufacturer, retrofittable.
- Enables automation and digitization solutions of the ISM® platform.
 - Asset Intelligence: EVOLUTION® monitors collected data and generates analyses and recommendations for action with the help of intelligent algorithms.
 - Fulfills national and international standards in data exchange and cyber security.
- Availability of different cabinet sizes and different drive solutions depending on the specific customers' needs.
 - Cabinet made of aluminum sheet (protection class IP66). Also available in double-walled design with passive cooling for optimized temperature management while minimizing the CO2 footprint.
 - Removes the need for a separate cabinet and simplifies wiring.

EVOLUTION BASIC CONFIGURATION

Standard motor drive functions

- **EVOLUTION** Cabinet 1200
- Motor drive functionality (ED 6,5Nm)
- Climate zone EXPERT (-40°C...+55°C)
- Corrosion protection class (C4H)
- OLTC Motor Voltage – 3AC



Digital Functions

- HMI operator interfaces
- Substation visualization
- Transformer monitoring BASIC
- Temperature measurement BASIC
- OLTC Monitoring BASIC
- SensorBUS®

→ Enablement for future upgrades



OPTIONAL PACKAGES

Ready

- SCADA
- AVR BASIC

ReadyPlus

- SCADA
- AVR BASIC
- Cooling Monitoring BASIC (ONAF)
- Cooling Control PRO (ONAF)

Pro

- SCADA
- AVR BASIC
- Cooling Monitoring BASIC (ONAF)
- Cooling Control PRO (ONAF)
- Temperature measurement PRO
- MSense® DGA 3
- MSense® FO 8 channels*
- Upgrade cabinet size 1500

ProSuite

- SCADA
- AVR BASIC
- Cooling Monitoring PRO
- Cooling Control PRO
- Temperature measurement PRO
- MSense® DGA 9
- MSense® FO 8 channels*
- Bushing Monitoring BASIC (Capacitance C1)
- OLTC Monitoring PRO MSense®VAM
- Transformer Personal Logic Editor
- Upgrade cabinet size 1800

*Needs to be known in advance

In partnership with (MR)
Maschinenfabrik
Reinhausen.





Working together with our partner Southern States, LLC.



NORTHERN
TRANSFORMER

Contact Us

245 McNaughton Rd. E.,
Maple, Ontario, L6A 4P5, Canada
Toll Free: 1-855-669-1853
Local: 1-905-669-1853

