



NIAGARA POWER TRANSFORMER

Powering Possible.

Niagara Power Transformer produces power and special application transformers for service in **the most extreme conditions and demanding applications anywhere in the world.**

“At our core, Niagara Power Transformer has the **best people**, taking on the **toughest engineering challenges** with the highest quality and the **shortest lead times.**”

JOHN F. DARBY, PRESIDENT

QUALITY SYSTEM OVERVIEW

Our Quality Policy

THE KEY ELEMENTS OF OUR QUALITY POLICY ARE:

- Exceeding our customer's expectations & requirements
- Striving to be our customer's 'go-to' supplier
- Providing our customers with the best value delivered and the lowest total cost of ownership
- Focusing on long-term customer satisfaction
- Providing products that exceed industry and Government standards
- Striving for continuous improvement
- Understanding that quality is everyone's job
- Mitigating risk in everything we do

Our Quality Policy ISO 9001:2015 Certified Quality Management System

- Process approach
- Systematic approach to continuous improvement
- Proactive approach to Quality:
Good Catch Program

Supplier Quality Management

- Maintain an Approved Suppliers List
- New Suppliers are reviewed & evaluated prior to being added
- Supplier Quality performance is tracked through the Quality database
- Periodic Supplier performance evaluations

Training

- The PQS (Personnel Qualifications Standards)
- Program ensures personnel demonstrate required competencies prior to performing specific duties

Special Processes

- Welders certified per AWS D1.1
Leak test performed per IEEE C57.12.00
- Copper Brazers certified per AWS B2.2/B.2.2M
- Painting Process is 'Best-In-Class'; is designed for Maritime/Coastal use and exceeds both ASTM/IEEE C57.12.28/29 & ISO 12944 class C5M

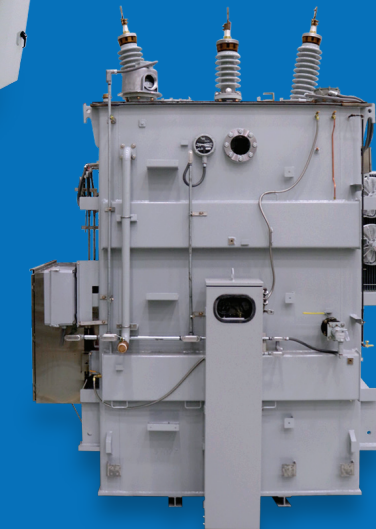
BEST-IN-CLASS QUALITY TRANSFORMERS

Niagara Power Transformer is recognized as a leader in the design and manufacturing of transformers that power the widest spectrum of the world's electrical applications.

We design general-purpose transformers for commercial, industrial, and utility use. We've also delivered transformers customized for unique conditions such as Antarctic research centers, humid and corrosive offshore oil platforms, high elevation mining operations, and desert solar farms. No matter the application, our custom designed transformers provide unparalleled performance.



On-Load Tap Changing
Transformers (OLTC)



Traction & Extra Heavy Duty
Traction Transformers

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Lean/5S/Quality Training

- Lean/Quality Training is required for all employees
- Partnership with University of Buffalo's TCIE Program since 2005

NCR/CAR/Good Catch Program

- Focus on Proactive Problem Solving
- Weekly meetings with Management Team
- Weekly face-to-face meetings with all Operations Areas
- Daily Management Plant 'Walk Through' utilizing area 'White boards' to highlight issues & address them asap



Transformer Certifications

- UL, C-UL, CE, CSA
- Niagara was 1st to be certified by CSA for oil-filled transformers

Results

- Among the lowest Transformer Field Failure Rate in the Industry at 0.32% over the last 10 years
- Over 75,000 transformers installed for the most demanding applications world wide
- Lowest total cost of ownership

OUR TRANSFORMERS, BY THE NUMBERS

From the test floor to the substation yard, we put our expertise to the ultimate test every day.

TEST FLOOR FAILURE RATE

0.75%

over the last 10 YEARS

FIELD FAILURE RATE

0.32%

over the last 10 YEARS

OSHA CERTIFIED SHARP FACILITY

ISO 9001 CERTIFIED

SERVING MORE THAN 80 COUNTRIES WORLDWIDE

UP TO **50 MVA** BASE RATING

UP TO **100 MVA** FAN RATING

UP TO **138,000 Volts**

UP TO **650 kV BIL**

UP TO **90,000 Amps**

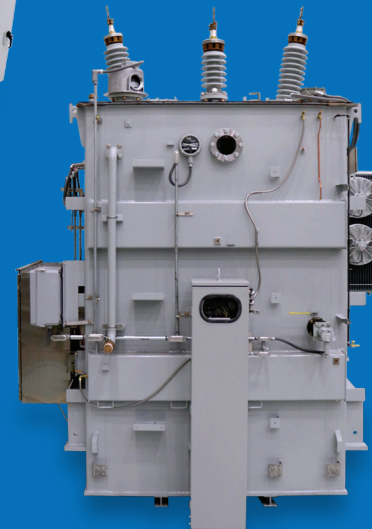
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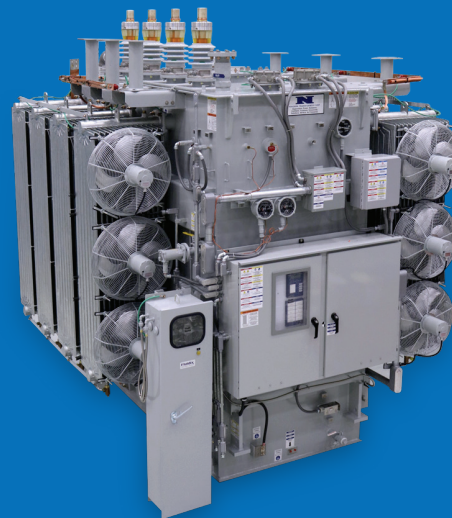
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On-Load Tap Changing
Transformers (OLTC)



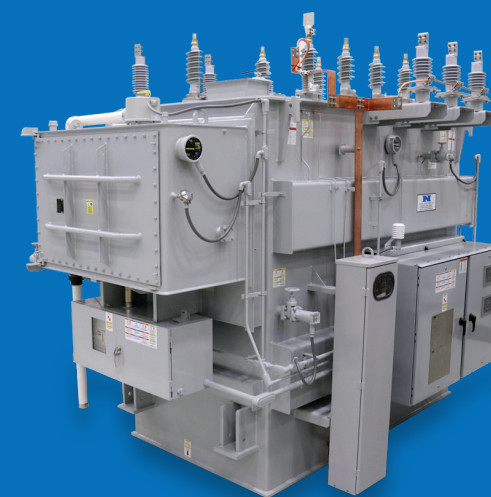
Traction & Extra Heavy Duty
Traction Transformers



Station Service
Transformers (SST)



Substation Transformers



On-Load Tap Changing
Transformers (OLTC)



High Current Rectification
Transformers



Phase-Shifting Transformers



Grounding Transformers

DECADES OF TRANSFORMER EXPERIENCE



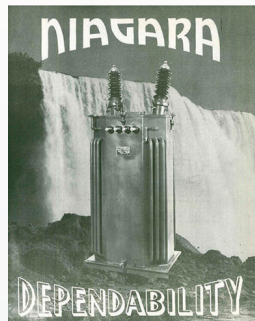
1924

Our original company, Erie Electric Corp., was founded by John H. Darby, with a borrowed \$300 in capital.



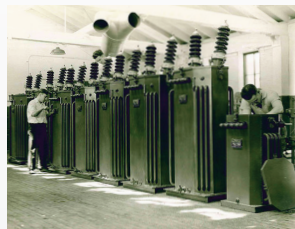
1933

Designed and manufactured our first new Niagara industrial grade transformer.



1943

Designed and manufactured our first new Niagara utility grade transformer.



1957

Strong growth in our company requires expansion of our facilities to a total of 10 buildings.

WHAT SETS NIAGARA POWER TRANSFORMER APART?

LONG-TERM, VALUE-DRIVEN FOCUS

- Total cost of ownership driven
- Superior engineering, LEAN, Six Sigma, and ROI-based investment analysis drive out non-value-added cost
- Sensitive to first cost position in today's competitive marketplace
- Active in IEEE and IEC standards writing committees as chairman and in senior leadership positions
- Conservative management and financial practices
- Independent — no private equity, no debt

NIMBLE BY DESIGN

- Quick proposal and drawing turnaround times
- Fast and reliable shipping schedules
- Engineered to order; completely flexible to accommodate customer needs
- Full bonding capability
- In-house electrical and mechanical PE certification
- Double test reporting
- Retrofits, tilt, offshore applications, low profile, high elevation, high ambient, highly corrosive atmospheres

CONTINUOUS IMPROVEMENT

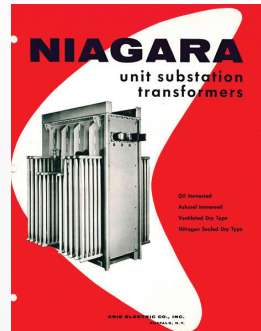
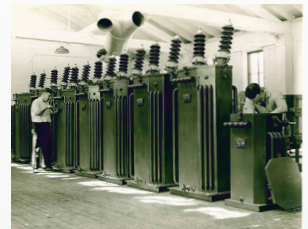
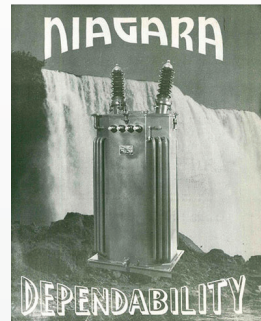
- Complete physical segregation of tank fabrication and shot blasting from winding and assembly
- Complete physical segregation of dirty from clean production activities
- Multiple-bay, electrically and mechanically isolated, test facility with RF room
- Positive pressure winding and manufacturing environment, strict humidity and particulate control, physically isolated and enclosed winding shop
- State-of-the-art paint booth meeting IEEE C57.12.28, C57.12.29 and UL requirements as well as international painting standards

DECADES OF TRANSFORMER EXPERIENCE

For over 100 years, Niagara Transformer has delivered an unparalleled combination of industry experience, design expertise, and manufacturing excellence.

As we've grown and evolved, we've risen to meet the challenges of an international marketplace by serving more than 80 countries.

As we approach our second century, we do so with a spirit of innovation and unwavering dedication to our customers.



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1973

Partnered on highly engineered transformers for Westinghouse Electric Corporation's portfolio.

1979

Fred W. Darby becomes second generation company president. Performed first successful short circuit test.

1984

Became the leading rectifier duty transformer manufacturer in North America.

1999

Completed our **75,000th transformer.**

2000

John F. Darby becomes third generation company president.



2013

Opened our new \$25 million state-of-the-art manufacturing facility in Buffalo, New York.

2015

Expanded voltage capacity, entering the **115 kV, 550 kV BIL voltage class.**

Expanded voltage capacity, entering the **138 kV, 650 kV BIL voltage class.**

2017

Opened our \$5 million LEAN kitting facility.

2019

Opened our new \$4 million advanced engineering, research, and development center in Buffalo, New York.

Niagara Transformer Corp. evolves into its new name **Niagara Power Transformer.**

2023

Celebrating our **100 year anniversary.**



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DEEP INDUSTRY EXPERIENCE

400+ YEARS

of transformer specific design experience

700+ YEARS

of transformer specific manufacturing experience

85+ YEARS

of transformer specific management experience

VP of Engineering is an

IEEE FELLOW

CERTIFICATIONS

Small business certified for federal contracting, UL, CUL, RUS, DNV, ABS, Lloyd's Register, EM UBC, CSA, WEEE, RoHS, RoHS China, CE, IEC, GOST, BS, PIP, KC



WE WORK FOR WORLD-CLASS...

INDUSTRIALS & OEMS



UTILITIES





Scan the QR code to visit
niagarapowertransformer.com

Call or email
716-896-6500
sales@nptransformer.com

