



"THE TRANSFORMER PEOPLE"



308 SW 3rd Street / Tel: 800-843-7994 / Email: sales@trelectric.com  
Colman, SD 57017 / Fax: 605-534-3861 / Website: www.trelectric.com



We have an enormous supply of inventory on hand at all times at T&R Electric. But it's still our employees that make the difference when working with our company. They are dedicated to making it a great experience for our customers. The ownership and pride they take in their work and the years of experience they bring to the table makes all the difference. Presently 35 of our employees have been with the company for over 25 years and another 32 who've retired made this their career! That's the biggest reason we've been so successful over the years. Our employees are dedicated to giving you the best service in the industry.



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### Mission Statement

“As a family-owned company located in the heart of the Midwest, we understand our success is based upon our commitment to building relationships and providing quality service to our utility and industrial customers. T&R Electric Supply Co. Inc. and its experienced staff is committed to providing a high quality, low cost alternative for your distribution and power class transformer needs and backing it up with our industry leading warranty up to 36 months.”

**T & R ELECTRIC**



Located on the plains of eastern South Dakota, T&R Electric focuses on several things-inventory, quick delivery, competitive pricing and personal commitment to quality and performance. We have been a dependable supplier of transformers and other high voltage electrical apparatus to municipalities, REA's, investor-owned utilities, commercial and industrial customers.

Due to our large inventory of in-stock items and our skilled manufacturing capabilities, we are able to meet quick delivery requirements. We can save our customers 20-40% by building dependable reconditioned and copper rewind transformers. We also offer one of the most extensive 100% unconditional guarantees in the industry.



### T&R 1961

From the humble beginnings in this building on Main Street in Colman, SD with just two employees, T&R has grown into the largest supplier of remanufactured transformers in the United States!



## EXPERIENCE



T&R Electric Engineering Team





### *T&R Facility*

We have the ability to rebuild units with capacities up to 138,000 volts and a base of 30 MVA.

T&R Electric utilizes more than 221,000 square feet of manufacturing facilities on 61 acres, of which 76,000 square feet has been added since 2002 because of the demands of the quality of our product.

T&R Electric has the capability to carry your order anywhere in the United States. We are conveniently located in the center of the country just minutes from two interstate highways and at the halfway point between the east and west coast.



**FACILITY**



T&R Electric has single phase polemount and padmount transformers ranging from 3 KVA up to 500 KVA with voltage class ratings up to and including 35 kV. A wide variety of options are available and units can be custom built to meet your specifications. At any given time, T&R has 40,000 transformers in stock!

*"T&R is an excellent transformer supplier. The sales people are knowledgeable and courteous and willing to take the extra step to find a solution. Good lead times and prompt deliveries on shipments."*

— Kevin (Purchasing Manager with Elkhorn Public Power District)  
Battle Creek, NE



# SINGLE PHASE



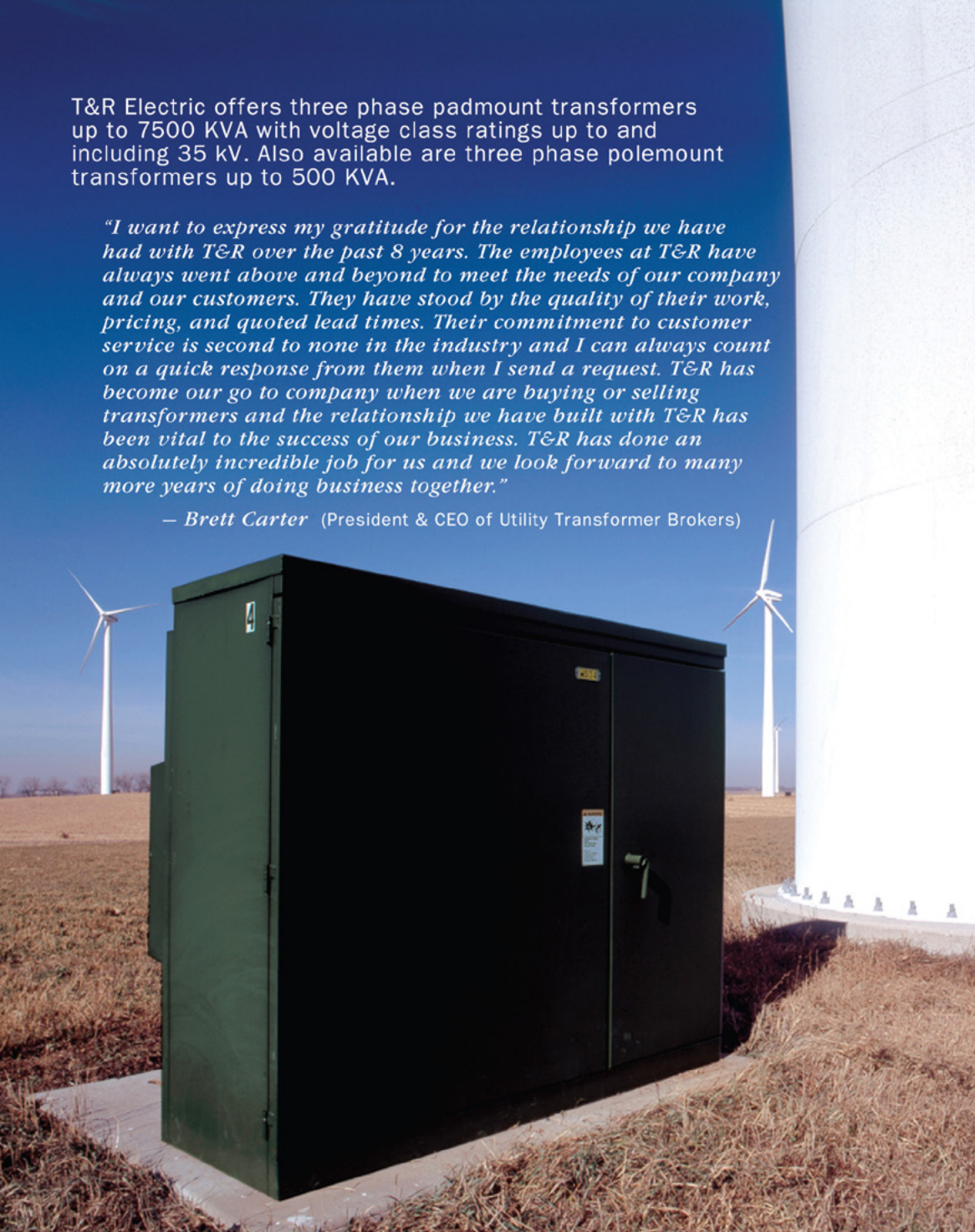
Polemount Transformers



T&R Electric offers three phase padmount transformers up to 7500 KVA with voltage class ratings up to and including 35 kV. Also available are three phase polemount transformers up to 500 KVA.

*"I want to express my gratitude for the relationship we have had with T&R over the past 8 years. The employees at T&R have always went above and beyond to meet the needs of our company and our customers. They have stood by the quality of their work, pricing, and quoted lead times. Their commitment to customer service is second to none in the industry and I can always count on a quick response from them when I send a request. T&R has become our go to company when we are buying or selling transformers and the relationship we have built with T&R has been vital to the success of our business. T&R has done an absolutely incredible job for us and we look forward to many more years of doing business together."*

— Brett Carter (President & CEO of Utility Transformer Brokers)



## THREE PHASE

We buy, sell and stock 1,600 three phase transformers each year. We recondition, rewind, repair and ship out 300 plus loads a year of three phase padmounts.

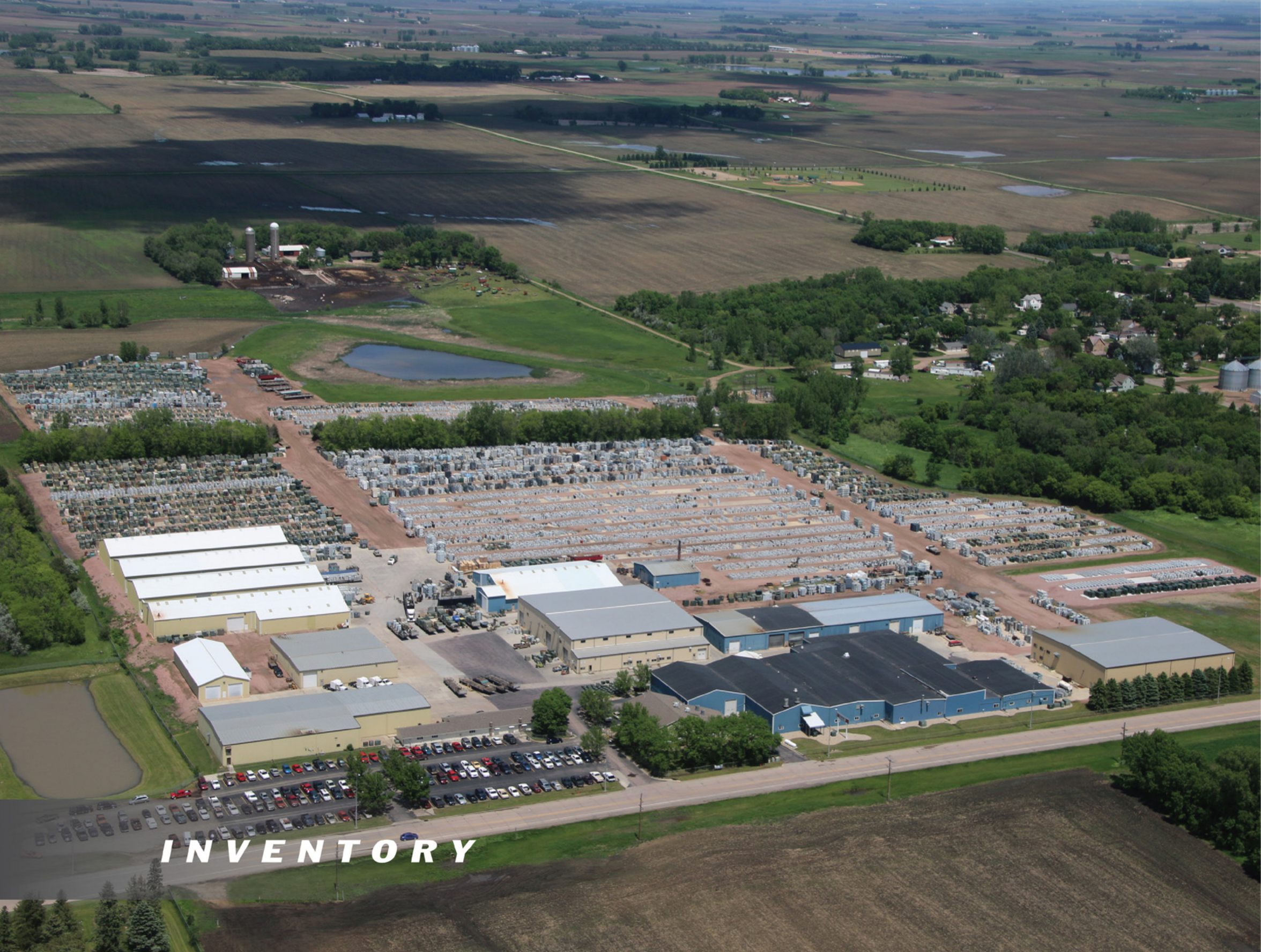


We specialize in custom-built transformers like these for the military. Each transformer had four secondary voltages (480Y/277, 460Y/265, 416Y/240 and 208Y/120) which allowed them to use the same transformer for many different voltage applications.

*"I have been using T&R Electric for over 20 years. T&R is my first choice for re-built and re-furnished equipment; they have always provided efficient and reliable service."*

— Eric Melanson (President of ECM Corporation)





**INVENTORY**



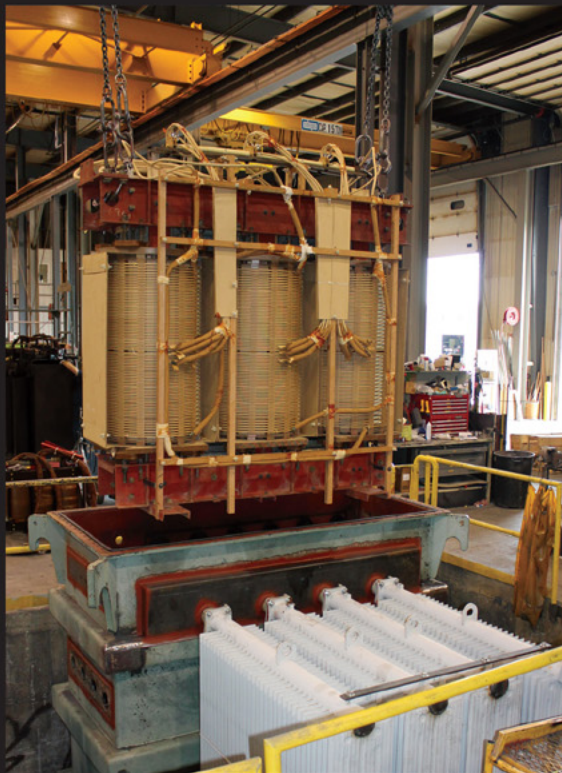
T&R Electric offers single and three phase substation transformers up to 30 MVA base with voltage ratings up to and including 138 kV.

T&R is also very active in the repair business of customer-owned substation transformers. We will evaluate your existing transformer to determine what problems may exist and will repair your unit quickly and efficiently to get you fully operational as quickly as possible.

- All winding materials are 100% copper
- Designs include circular disc, helical and layer windings
- Short circuit analysis performed on all designs
- Coil blocking structures are designed to maximize short circuit strength
- Improved lead structure support
- Upgraded steel clamps

*"The City of Springfield lost power when a squirrel created an arc that caused the failure of a 10 MVA substation 69000 Delta-12470Y/7200 and a bank of 333 KVA regulators. I called T&R Electric and they had a rental 10 MVA and a bank of regulators on site in less than 24 hours. They picked up our failed transformer and rewound it in a timely manner while we used their rental. We have always had great service and continue to buy all of our transformers from T&R Electric Supply."*

— Scott Johnson (Electrical Superintendent)  
Springfield Public Utilities - Springfield, MN



**SUBSTATION**





### Rewind Shop

T&R Electric has a climate-controlled rewind department along with many other quality control procedures to ensure the best final product possible.

### Power

Over fifty years of experience with the design and production of power class transformers enables us to maintain our place as a leader in the remanufacturing industry.

We strive to exceed the original capabilities of these transformers when they were new, thanks to the experience and expertise of our design engineers. As a result, you get a unit with better cooling, increased capacity and improved short circuit strength.



### Distribution

T&R has a complete product line of 100% copper rewind single phase and three phase distribution units. We put the best materials back into our product. That is why we stand behind it with a 36 month warranty!

- 100% 36 month warranty
- New copper windings
- All new insulation
- Three phase up to 7500 KVA
- Single phase up to 500 KVA
- Rewound transformers meet or exceed industry standards



**REWIND**





## Switchgear

Whether it's for a new installation or to match existing switchgear applications, turn to T&R Electric for your switchgear needs. T&R carries equipment and replacement parts that original manufacturers no longer supply.

T&R Electric also builds complete substations. To assure easy installation, the complete substation is pre-assembled in our factory before shipping. The entire package:

- Outdoor structures with galvanized steel construction
- Strain and apparatus insulators
- Copper bus tubes
- Copper ground cable
- Disconnect switches
- Lightning arrestors
- Power fuses

T&R Electric offers a complete line of rebuilt switchgear to fill your needs:

- Lightning arrestors
- High voltage dead end structures
- Oil circuit breakers
- Potential transformers
- Indoor fused load interrupt switches
- Padmounted fused load interrupt switches
- Metering stations
- Drawout circuit breakers
- Metal clad lineups
- Feeder structures
- Fuses
- Molded case circuit breakers
- Fused cutouts
- Current transformers
- Single and three phase reclosers
- Pole top switches
- Oil fused cutouts
- Bypass switches
- Oil switches



# SWITCHGEAR, REGULATORS, AND DRY TYPES

## Regulators

T&R Electric offers new and rebuilt voltage regulators. Rotating regulators for maintenance will increase operational performance and it will greatly extend the service life of the unit. Neglecting regular maintenance can lead to a failure which causes unexpected power outages and more extensive repairs.



Complete reconditioning includes:

- Untanking and inspecting contacts and components
- Changing the motor capacitor
- Testing the motor, bandwidth, control voltage and potential to ensure operation.

T&R Electric is proud to be a certified regional service center for voltage regulators manufactured by Siemens Energy & Automation. We offer a wide variety of services as a result.

- Repair estimates with no obligation
- Complete servicing of all makes and models
- The most extensive parts inventory in the region
- Several control panel upgrade options
- Experienced factory-trained employees

## Dry Types

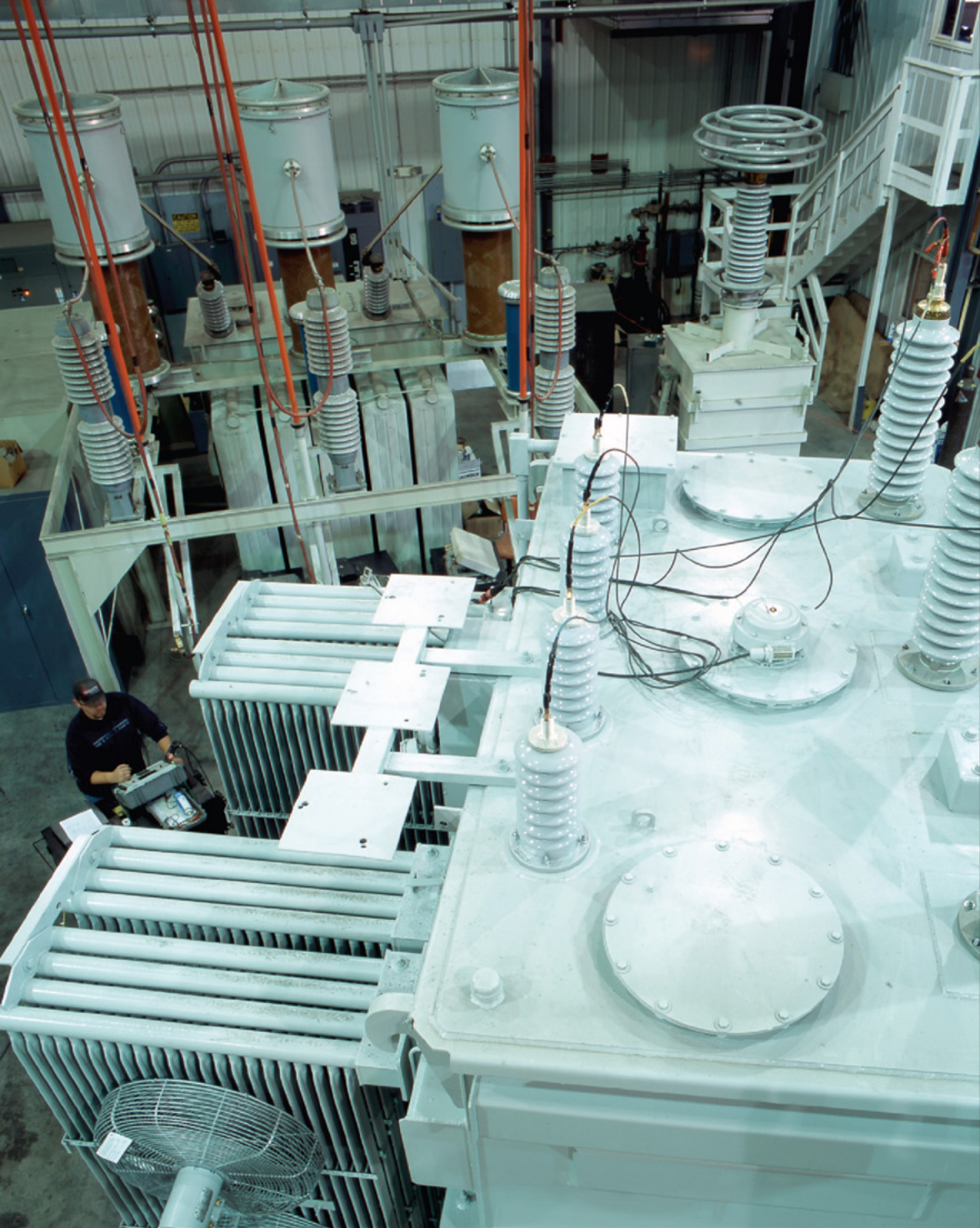
T&R Electric carries a large inventory of single phase and three phase new and reconditioned dry type transformers up to 5 MVA.

Whether it's core and coil replacements or indoor/outdoor applications, T&R can retrofit and fabricate customized dry types to meet your specific needs.

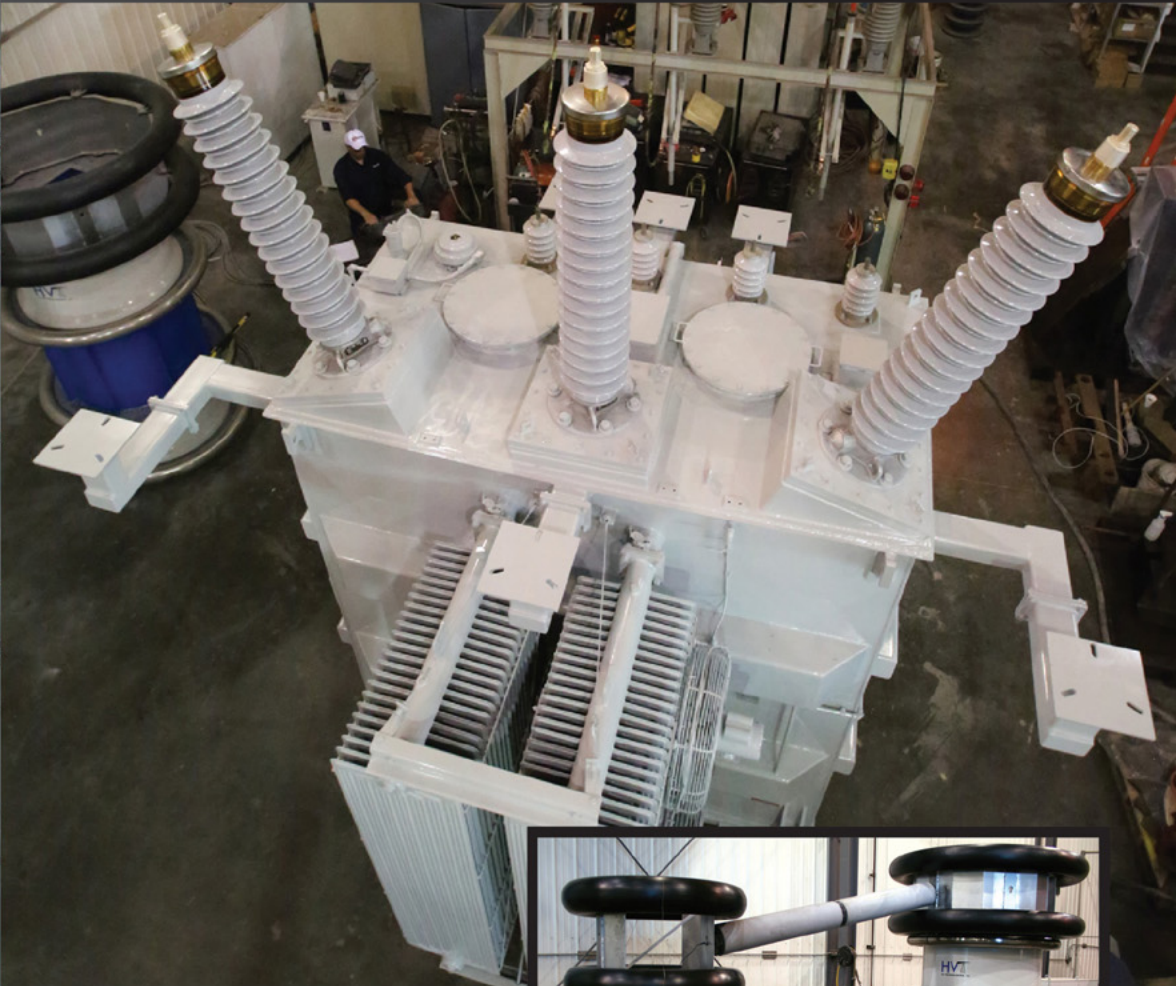


*T&R carries equipment and replacement parts*





T&R Electric puts reliability in writing. Every transformer we recondition or rewind is guaranteed against defects in workmanship and materials. T&R exceeds industry standards by offering up to a three year warranty on rebuilt and rewind transformers. T&R Electric is proud to have the latest technology in loss measurement for power transformers that can measure losses to greater than 1% accuracy. All transformers undergo a standard series of tests that conform to current ANSI standards.



# TESTING



A/C Hypot Testing Equipment





### Laboratory

Our state-of-the-art lab allows us to supply complete lab testing on your oil-filled equipment.

T&R Electric follows up-to-date ASTM methods, using comprehensive quality control procedures.

A crucial step in the process is proper management and maintenance of oil-filled equipment which starts with lab testing and can minimize costly down time and maximize the life of your transformer, regulators and other electrical apparatus. Our lab tests approximately 32,000 samples every year ranging from PCB to Oil Screening and Dissolved Gas Analysis.

T&R offers a full line of services that no other lab testing company can offer. You won't be left wondering what to do with the test results. We have the experience and the expertise to analyze the test results and determine a plan of action that will be in your best interest. Standing the test of time since 1961!



# LAB TESTING



T&R Electric specializes in providing your investment recovery services. Handling and decommissioning transformers is what we do on a daily basis. We purchase an average of 26,000 units annually and recycle nearly 13,000 transformers.

We are your one-source solution to reduce environmental risk and liability exposure. T&R prides itself on our record of safety and environmental responsibility. As a result, you can be confident that your transformer is being recycled properly.

*“T&R Electric has had a long successful business relationship with Duke Energy (formally Duke Power) for approximately 30 years. Our relationship varies from referrals to customers looking for product, services, bids and market information.*

*Throughout the life of the relationship, T&R Electric has offered high returns on re-marketable assets new or used transformers and various T&D related material.*

*It is my opinion that T&R Electric personnel has strived for longevity in business relationships through transparency and a true partnership with our company. They perform high levels of customer service, flexibility to the customer’s needs and operations, as well as performing excellent safety work while on our sites.*

*We look forward to continued future business over the coming years.”*

*— Karen R Moore (Sales Coordinator)  
Duke Energy*



### *T&R Recovery*

Core and Coil assemblies are removed from their tank and are placed into a burn tray to be immediately scheduled for burning in our EPA approved Al-Jon United (model #G-466) multi-chambered wire reclamation furnace for metals recovery.



## **INVESTMENT RECOVERY**