



Powering reliable solutions for you

*Application flexibility*  
*Technology breakthroughs*  
*Environmental advantages*  
*Complete solutions*



# POWER TRANSFORMERS

In an ever-changing world, every day, Industry faces new challenges to satisfy their customers, be competitive, provide a safe work place and meet stringent regulations.

To maintain an uninterrupted operation requires flexible, fast response and custom made energy delivery solutions for specific needs and particular conditions.



## OUR COMMITMENT

At **Prolec GE** we work relentlessly to exceed the new demands by innovating solutions for a more sustainable and safer work environment with a wide array of electrical transformer solutions for our customers while meeting the most stringent standards.

Innovation efforts are possible thanks to our engineering team and experts working with the latest advances in Transformer's Technology, state-of-the-art design tools and leading-edge testing, we incorporate performance and reliability systems into every transformer to offer our customers the best solution for the generation, transmission and distribution of electricity.

## EXPERIENCE IN THE INDUSTRY

### RENEWABLE

Bringing efficient renewable power to the end customer and committed to comply with the latest environmental regulations. For cleaner, more efficient sources of energy, reduced emissions and abundant sources of clean water.

110-megawatt (MW) wind power project, in Starr County, Texas. Part of total wind-generated complex with capacity to more than 2,100 MW.

- Collector Step-Up Transformer, 126/168/211 MVA, 34.5/345 kV, LV OLTC
- Collector Step-Up Transformer, 69/92/116 MVA, 34.5/138 kV, HV DETC

### URBAN SUBSTATIONS

Expansion and modernization to existing substations. Transformers for indoor use in a power station building, inside the urban area, an ecologically sensitive area. 230 kV transformers filled & tested with a synthetic ester as insulation liquid to mitigate environmental damage and increase substation safety.

- Three phase transformers, 36/48/60 MVA, 230/23/15 kV, HV OLTC
- Three phase transformers, 18/24/30 MVA, 85/23 kV, LV OLTC
- Three phase transformers, 18/24/30 MVA, 115x85/23 kV, LV OLTC

### LOW NOISE

Utilities are taking noise concerns from the residents seriously, and although solutions to this problems are complex, **Prolec GE** developed technology to reduce significantly the transformer sound level at substations located in residential neighborhoods. For autotransformers up to 230 kV reduction level achieved is 20 dB below standard and for power transformers up to 115 kV reduced level is 25 dB below standard.

Operation at reduced noise levels.

- Autotransformer: 3F, 134.4/179.2/224 MVA, 230, 115 kV, LTC, 21 dB below standard
- Power Transformer 3F, 50.4/67.2/84 MVA, 115, 36.5 kV, LTC 22 dB below standard



### INDUSTRIAL APPLICATIONS

Wide array of electrical transformer solutions that fit the needs and particular specifications of commercial and industrial customers.

- Vegetable oil unit to polyethylene plant; 20 MVA 34.5-4.16 kV and 70 MVA 230-34.5 kV mineral oil unit
- Corn processing and ethanol production facility 185 million gallons per year; units 64 MVA 138-69 kV with LTC and 40 MVA 69 kV-13.8
- A Wisconsin paper mill with the capacity to produce about 560,000 tons of coated freesheet paper per year; unit 50 MVA 115-46 kV with 13.8 tertiary DETC

## OVER 40 YEARS OF EXPERIENCE BEHIND US...

**Prolec GE** builds high reliable Transformers. We work close to our customers to offer them the highest quality equipment: we design, manufacture and install transformers that meet our customer's needs and expectations. **Prolec GE** is the lead manufacturer in Mexico and one of the top 4 among manufacturers within the American continent.

With presence in over 35 countries, we meet our customers need for any application in any part of the globe.

- 5 fully integrated product lines... Rating from 5 kVA up to 1000 MVA, from tank manufacturing to testing and shipping
- Over 8,000 Power Transformers and 3.5 million distribution transformers installed and operating in more than 35 countries
- Customer oriented culture combined with a high level of quality standards and continuous improvement efforts makes **Prolec GE** your best option



In addition to designing and manufacturing Transformers, we attend to every aspect related to transformer operations through our field services team, our offering below:

- Rigging and Mobilizations
- Transportation
- Installation
- Storage Preparation
- Field Services
- Maintenance
- Training
- Condition Assessment
- Spare Parts





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# POWER TRANSFORMERS ALL THROUGH THE ELECTRICAL GRID



## AUTOTRANSFORMER

- Up to 1000 MVA
- Rated Voltage up to 550 kV AC
- OLTC, DETC or combination of both



## POWER

- Up to 500 MVA
- Rated Voltage up to 550 kV AC
- OLTC, DETC or combination of both
- Mineral, vegetable or synthetic oil



## COLLECTOR STEP-UP

- Up to 500 MVA
- Rated Voltage up to 345 kV AC
- OLTC, DETC or combination of both

## GENERATOR STEP-UP

- Up to 1000 MVA
- Rated Voltage up to 550 kV AC



## SHUNT REACTOR

- Up to 50 MVA, 1Ø
- Rated Voltage up to 400 kV AC
- 60 Hz

## NEUTRAL GROUNDED REACTOR

- Up to 5 MVA @ 10 sec., 1Ø
- Rated Voltage up to 75 kV AC
- 60 Hz



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## Headquarters

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## ADDITIONAL CONTACT INFORMATION

See your local GE sales representative or visit our website

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