

Radiant Enterprises, *Experts in Non Ceramic Insulators*



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VIDEO: -

[HTTPS://WWW.YOUTUBE.COM/WATCH?V=RO7_EJMPZHW](https://www.youtube.com/watch?v=RO7_EJMPZHW)



Brief History

- Technical know-how from M/s Polysil Industries, USA (Promoted by Electrical Power & Research Institute – EPRI - California, USA) in the Year 1986.
- Technical guidance from Dr. Y Ohama – Nihon University - Koriyama Japan
- Manufacturing Capacity – Bushings & Insulators Upto 72 kV.
- Developed VER Based Resin System for Insulators using Pressure Injection Method. Technology transfer from ERDA, Vadodara.
- Supplies to all the major Switchgear, Surge Arresters, Railways, Transformers & Power Generation Units Nationally and Internationally.
- Exporting to countries like US, Mexico, Europe & China since 2006.

Radiant Enterprises

Products Manufactured

- ✓ Epoxy Resin Cast Insulators for Indoor/Outdoor electrical applications.
- ✓ Polymer concrete (Polyconcrete) Insulators/Bushings – Electrical applications
- ✓ TPE (Thermoplastic Elastomeric Insulators) – Upto 33 kV

Accessories for Surge Arresters: -

- ✓ Insulating Bases for SA
- ✓ Disconnecters

Advantages of polycrrete concrete explained by Pennsylvania Power

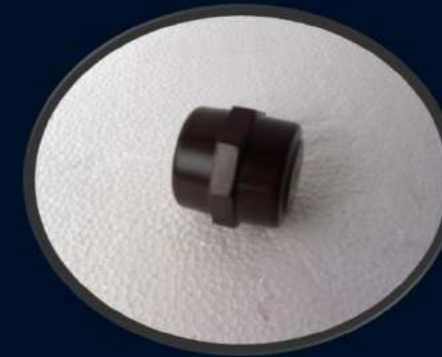
<http://tdworld.com/overhead-distribution/ppl-breaks-mold-polymer-concrete-cutouts>

Radiant Enterprises

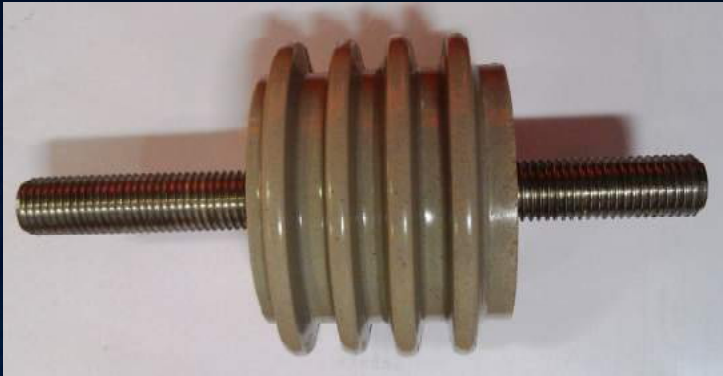
Insulators and Bushings for outdoor and indoor applications

For Switchgear Applications

415V – 72kV



Insulating Base (IB) for Lightning Arrestors



*Insulating Base for 1200kV LA
Tensile Strength – 80kN*



Porcelain LA



Radiant Enterprises

Products for Surge Arrester Applications



Insulating Bases for Surge Arresters

Surge Counter Bush

Usage in Distribution Class, Station Class & Railway Applications

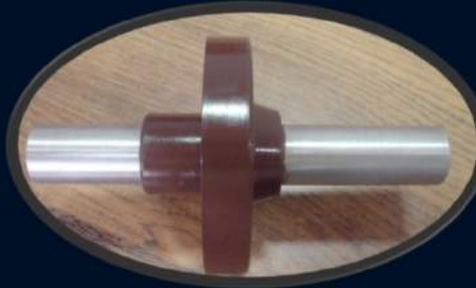
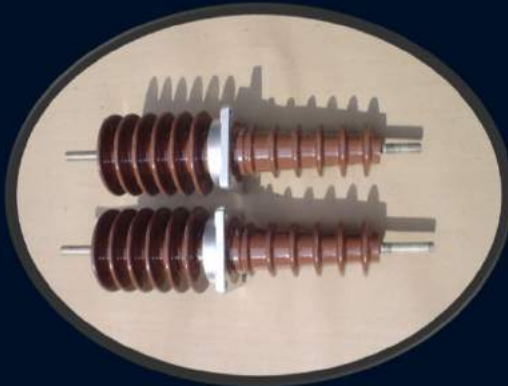


Disconnecters and Surge Arresters

Radiant Enterprises

Insulators & Bushings for: -

- ✓ Transformers
- ✓ Windmills
- ✓ Instrument Transformers
- ✓ Railways
- ✓ Load Break Switches



Radiant Enterprises



*Distribution
class
Insulating
Products*



Production & Testing Capabilities

- **Production Capacity**

- ▶ 30 Nos Pressure Gelation machines capable of processing 5 Ton material per Day.
- ▶ Strong working staff of 75 workers, 4 supervisors, 4 QC Inspectors
- ▶ 6 Nos High Power Vacuum mixing machines.
- ▶ 4 Nos Hot Air Ovens for accommodating any quantities of insulators.
- ▶ Material Handling equipment for efficient production cycle.
- ▶ Steam Chamber & Water Curing tank for Cementing of Porcelain Insulators.

- **Testing Facility**

- High Voltage Testing Facility – 5 kV and 100kV
- Bending Load testing facility – 5 Tons
- Hydraulic Pressure Test facility.
- X Ray testing facility for acoustic test

Quality assurance

- ❖ Right from Raw Material to Finished product, we have got quality checks at every stage.
- ❖ Raw Materials are tested and checked at incoming stage.
- ❖ In process Inspection carried out by help of gauges and control plans.
- ❖ Immediate action taken in case of any abnormality observed during production.
- ❖ Rejection records maintained along with corrective action plans and their implementation results.



Sample Check Gauge for one of our Support Insulator

Alumina Filled Insulating products for GIS



72kV Post Insulator



Enclosed Fuse Cut Out



Enclosed Fuse Cut Out Cover.
Porcelain Replacement



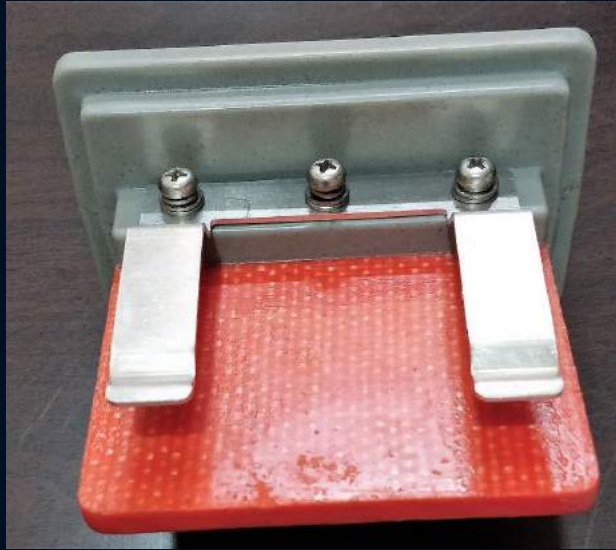
Polycrte

Porcelain

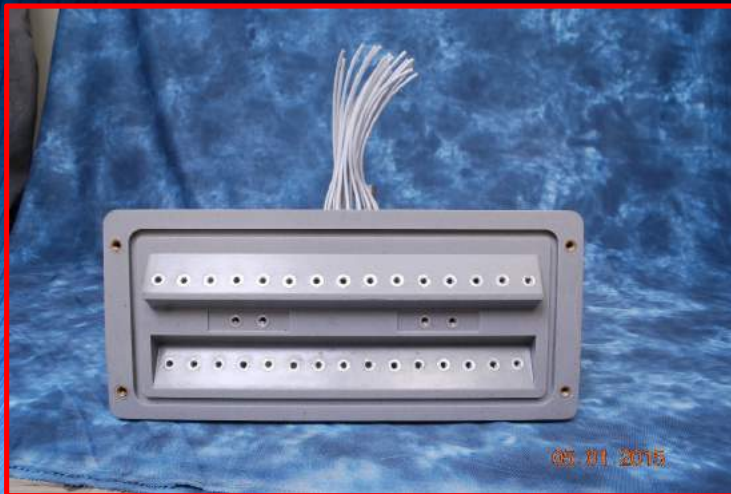
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Low Voltage Fuse Cut Outs



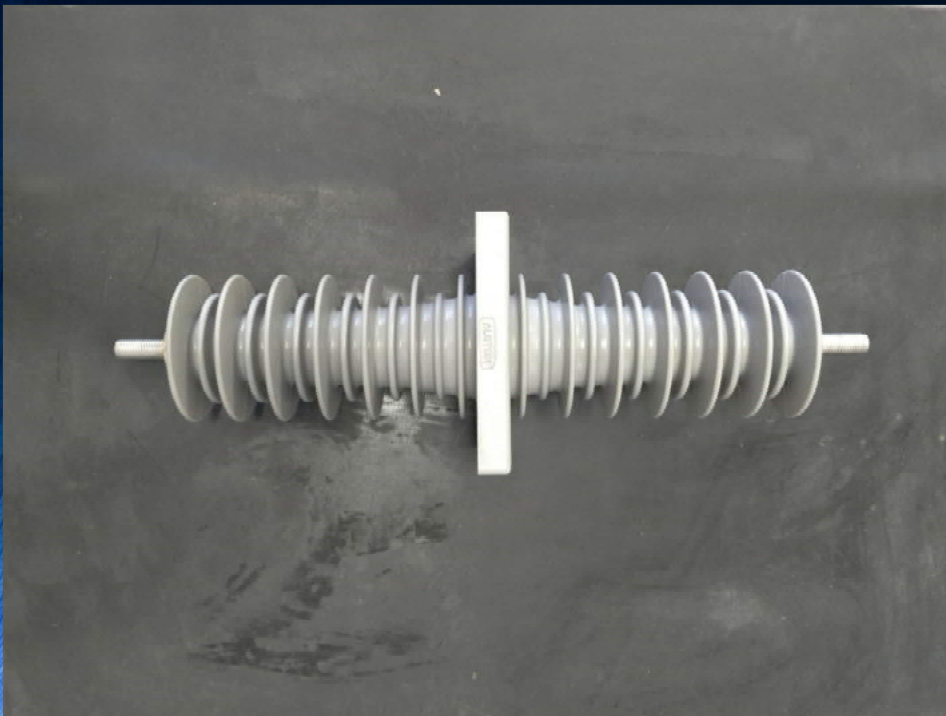
2016-17 Developments



Support Insulators & Bushings for Railways (Metro) applications

New Developments_(Cont)

25 kV Bushing for Railway Applications

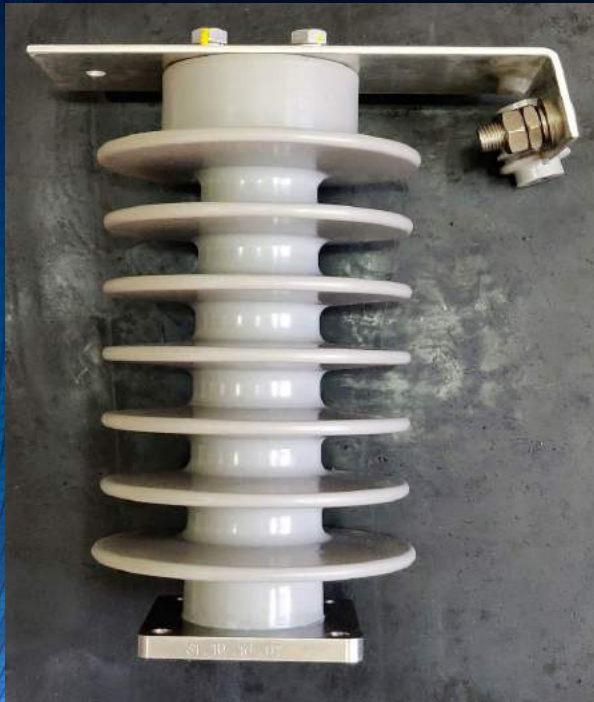


Import Substitution – LT Insulators for Railway applications



New Developments (Cont)

25 kV Roof Top Insulators for Railway Applications



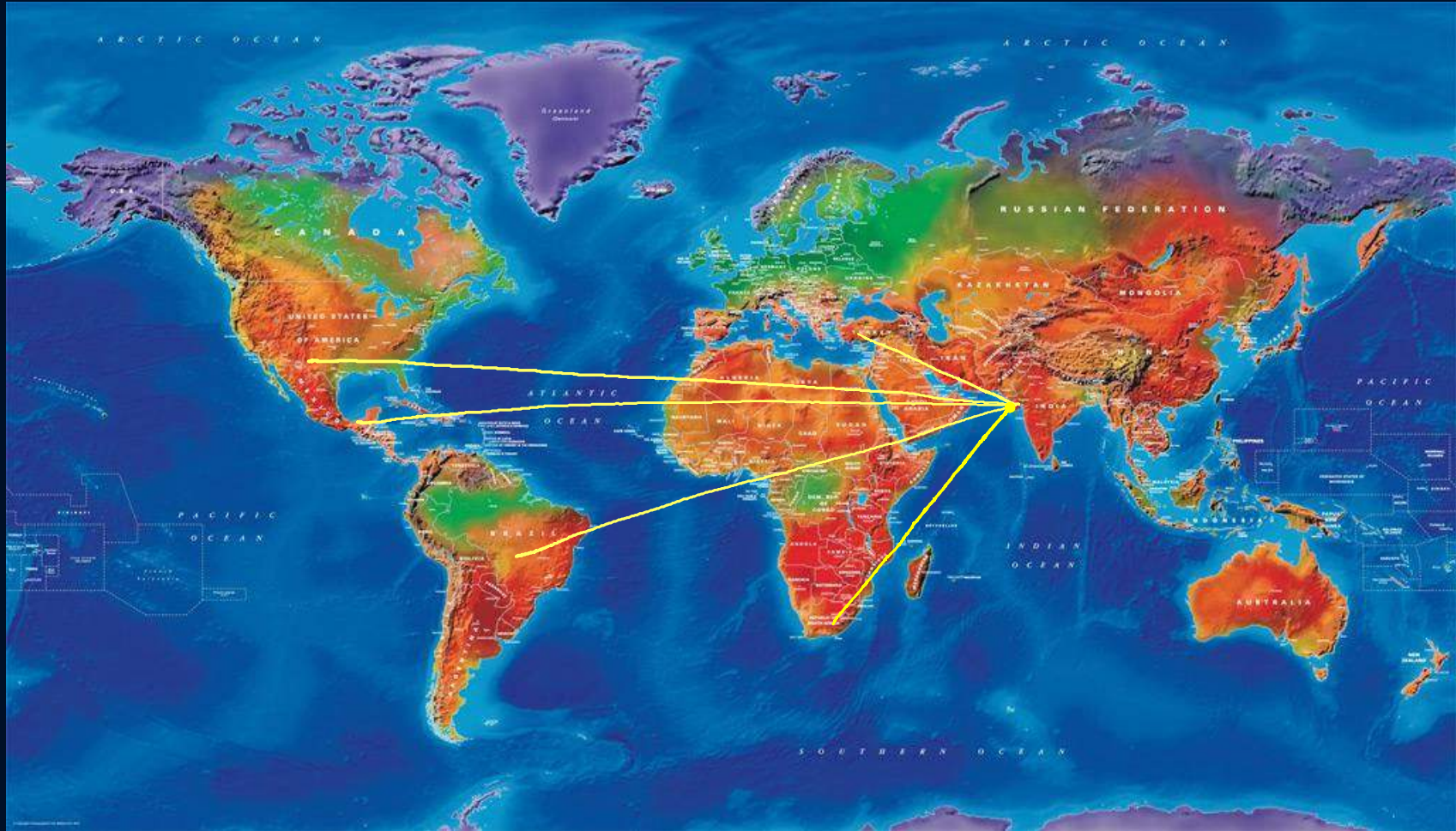
New Developments (Cont)

25 kV Bushing for Railway Applications



Existing Market

- India
- USA
- Europe
- South America
- South Africa
- Exports – 80%



Material Tested at various Labs

1. SGS – China – For Fire Protection on Railway Vehicles (EN – 45545-2 2013)
2. ERDA (Electrical Power & Research Institute, India) – Various Electrical, Mechanical & Physical Tests
3. CPRI (Central Power and Research Institute, India) – Various Critical test for Surge Arresters & Railway applications.



25 kV Insulator – Shock & Vibration Test

Other Capabilities

- ❑ Cementing Job – Joining Porcelain Insulators with Metal Flanges.
- ❑ Broken Insulator Repairing Job – We can repair broken Porcelain Insulators, which are way too old to be replaced on site.
- ❑ Develop custom made designs to suit specific applications, like high temperature, high pollution, saline environment and high voltage
- ❑ Years of R&D has given us an edge to develop and process latest polymer compositions which push the product's performance limits to the max.
- ❑ We work closely with our customers and every year try to provide them better prices or better designs in their applications.
- ❑ Developed products like Man Hole Covers for Civil applications



MAN
HOLE
COVER.















RADIANT ENTERPRISES

<http://inmrbuyersguide.com/radiant-enterprises/>

Mfg. & Exporters of Resin Cast / Polycarbonate Outdoor/Indoor Electrical applications

www.radiantenterprises.biz

PRODUCT RANGE

 LT INSULATOR	 800 KV IB	 SURGE COUNTER BUSHES
 INSULATING BASE	 INSULATING BASE FOR 1200 KV	 LT INSULATOR
 LV BUSHINGS	 PRIMARY TERMINAL	 22 KV POST INSULATOR
 ENCLOSED FUSE CUT OUT COVER PORCELAIN REPLACEMENT	 POLYCONCRETE PORCELAIN	 ALUMINA FILLED INSULATOR FOR GIS

PRODUCT RANGE

 POST INSULATORS 11 KV	 C.T. BASE 145 KV	 DISCONNECTORS / PLASTIC MOULDED PRODUCTS
 BREAKER RODS	 FUSE CUTOFF INSULATOR UP TO 150 KV BL	 LT INSULATORS
 C.T. BASE	 C.T. BASE	 C.T. BASE
 HIGH TEMP L.T. INSULATOR	 RAILWAY INSULATOR	 MULTI BUSHING

RANGE OF PRODUCTS

1. Resin Cast Insulators for Outdoor/Indoor Electrical Applications upto 12 KV
2. Polycarbonate Insulators upto 75 KV
3. Bushings for Transformers upto 15 KV
4. Components like Insulating Bases, Disc Insulators, SPO Discs etc.
5. Polymeric Insulating Products for Transmission Line applications
6. Special Purpose Insulators for High Temperature applications upto 200 Deg.C.

LIST OF CUSTOMERS

Indian Energy and Infrastruc. Companies	Asian Power Infrastruc.
APOL	WES
Indians	Green Power
Power Corp.	State Electricity

TESTING FACILITIES

1. High Voltage Testing Facility - 5 KV and 100KV
2. Switching Load Testing Facility - 5 Tons
3. Hydraulic Test Facility

RADIANT ENTERPRISES

Mfg. & Exporters of Resin Cast / Polycarbonate Insulators for Outdoor/Indoor Electrical applications

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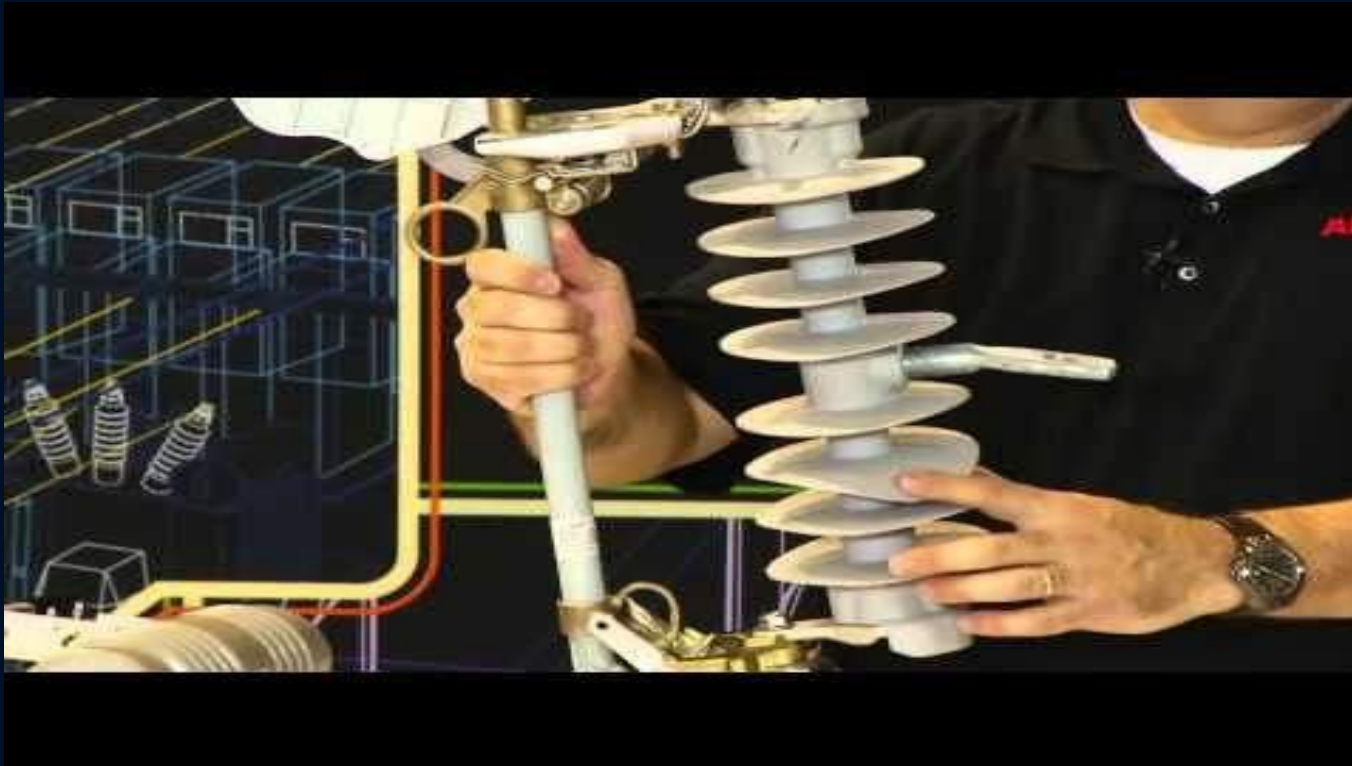


ABB Presentation featuring Polymer Concrete Cut Out Made by Radiant Enterprises

Polycrte Bushings on site since 2002





Radiant Enterprises

List of Important Customers.



BOMBARDIER

ALSTOM



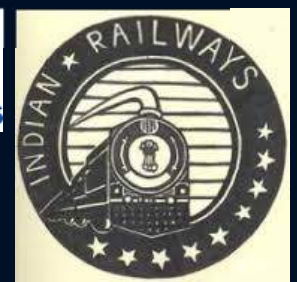
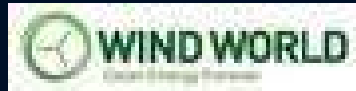
GE
Transportation



ADtranz



DAIMLERCHRYSLER



Thank You

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Regards.
CEO.

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