



**THE
OKONITE
COMPANY**

WIND ENERGY



Setting the Standard

Wind Energy is Popular

The popularity of Wind power continues to grow in the U.S. With the current installed capacity of over 30,000 MW, the growth rate of Wind Energy is now 45% each year. Currently, 35 states have some amount of wind generation. Certainly, federal policy and tax credits will play a large role in the future pace of additional wind projects. What has become clear, is that Wind Energy is here to stay.

You Know Okonite

The same company that's served the Utility, generation Market for 130 years is ready to serve your Wind Energy needs. From 1882, when Thomas Edison selected Okonite Cable for the very first generating station on Pearl Street, New York City, to today with new State-of-the-Art nuclear plants- Okonite has stood the test of time.

Okonite Quality

Within the industries we serve, Okonite is considered to be the premium quality cable available on the market. This comes from years of innovation, proven reliability, and a determination to get it right the first time. Maybe that's because we're an employee owned ESOP company where everyone is part of the products and solutions we provide.

During our historic legacy, we have led the industry in innovations, research and plant modernizations.

Okonite Reliability

Okonite has been the cable standard for all the past modes of power generation; wind generation requires the same cable reliability. Okonite's Okoguard all EPR insulation system has now preformed in the most demanding environments for over 40 years. Okoguard is the insulation system that is qualified to operate continuously at 105°C conductor temperature. Will your cables be able to continuously conduct power to the grid under a variety of conditions including the Perfect Wind, when all turbines are producing maximum output and all cables are fully loaded?

Ironically, cable is the longest link with the highest exposure between power source and the point of power delivery - the grid, yet a small percent of the project cost. Wind Farms deserve the same Okonite Quality Cables as all other forms of generation.

Technical Support

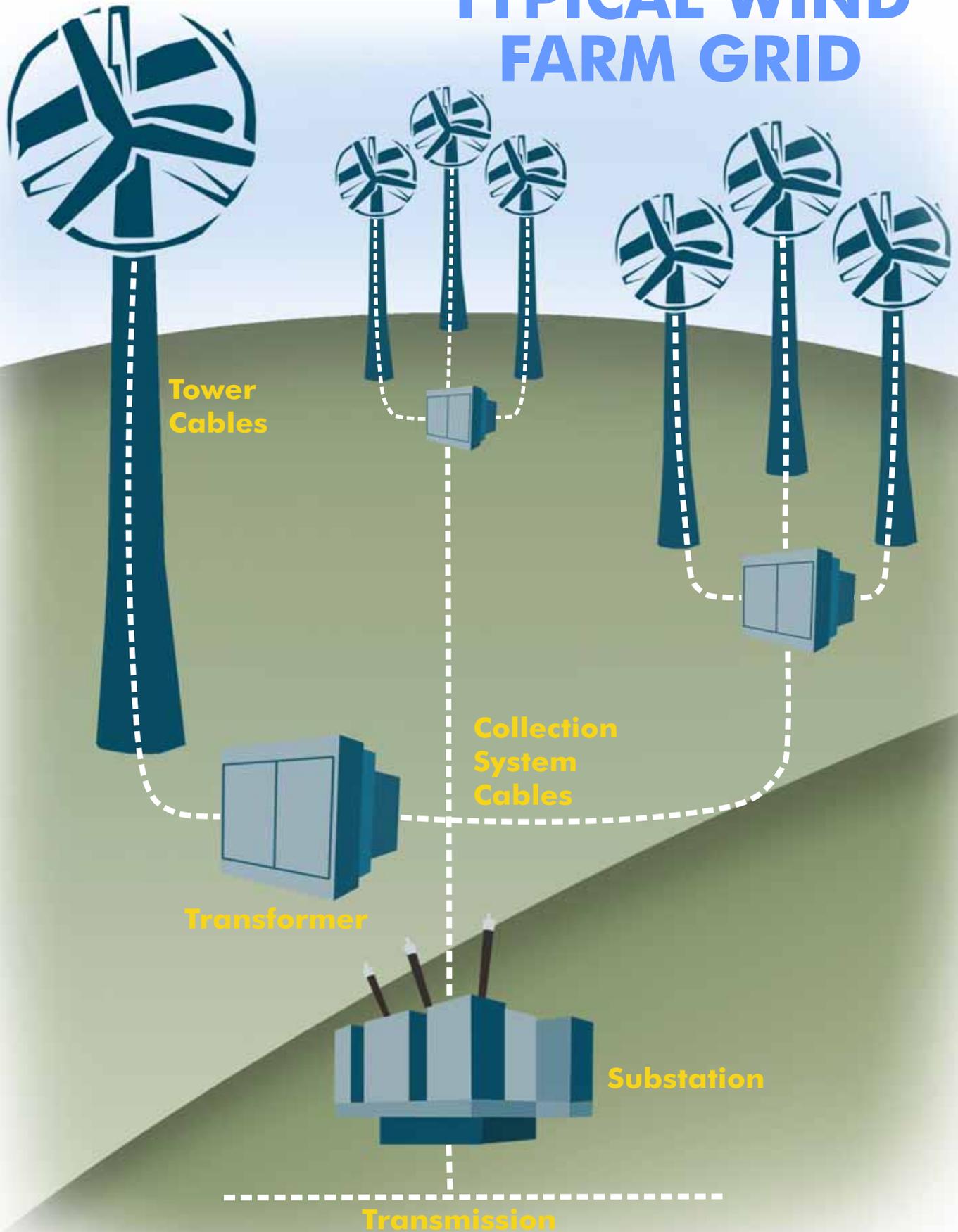
Our in-house staff of expert Applications Engineers provide a valuable service to assist customers with cable related issues. Training, onsite support, and technical support are all available. Cable design, electrical and installation calculations are gladly provided as part of our total service and support package.



YOUR WIND ENERGY SOURCE

	Cable Type & Voltage Range	Product Line	Insulation & Jacket Types	Industry Standards	Listings
Tower Cables					
Medium Voltage Power	1/C & M/C Power 2.4 - 35 kV	Okoguard/Okoseal	EPR/PVC	UL, CSA,	MV-105
		Okoguard/Okolon	EPR/CSPE	NEMA/ICEA,	CT-USE
		CLX [®]	EPR/CPE	AEIC, IEEE	MC-HL
Low Voltage Power	1/C & M/C Power 600 V & 2 kV	Okoguard/Okolon	EPR/CSPE	UL, CSA, NEMA/ICEA	4HH, RHW-2, USE-2, VW-1
		Okonite/FMR/Okoseal	EPR/PVC	UL, ABS NEMA/ICEA	TC-ER, VW-1
		X-Olene/Okoseal CLX [®]	XLPE/PVC XLPE/PVC	UL UL, CSA, ABS	TC MC-HL, RA-90, HL, CWCMC
Control Cables	Multi-Conductor 600 V	Okonite-FMR/Okolon	EPR/CSPE	UL, IEEE NEMA/ICEA	TC, VW-1
		Okonite/FMR/Okoseal	EPR/PVC	UL, ABS NEMA/ICEA	TC-ER, VW-1
		X-Olene/Okoseal CLX [®]	XLPE/PVC XLPE/PVC	UL UL, CSA, ABS, NEMA/ICEA, IEEE	TC MC, RA-90, CWCMC
		CLX [®]	XLPE/PVC	UL, CSA, ABS, NEMA/ICEA, IEEE	MC-HL, RA-90, HL, CWCMC
Collection System Cables					
Medium Voltage Power	1/C URD Cables 15 - 35 kV 1/C & M/C Power 2.4 - 35 kV	Okoguard URO-J 105°C	EPR/PE	ICEA, AEIC	
		Okoguard/Okoseal	EPR/PVC	UL, CSA	MV-105
		Okoguard/Okolon	EPR/CSPE	NEMA/ICEA	CT-USE
		CLX [®]	EPR/CPE	AEIC, IEEE	MC-HL
Low Voltage Power	1/C & M/C Power 600 v & 2 kV	Okoguard/Okolon	EPR/CSPE	UL, CSA, NEMA/ICEA	RHH, RHW-2, USE-2, VW-1
		Okonite/FMR/Okoseal	EPR/PVC	UL, ABS, NEMA/ICEA	TC-ER, VW-1
		X-Olene/Okoseal	XLPE/PVC	UL	TC
		CLX [®]	XLPE/PVC	UL, CSA, ABS	MC-HL, RA-90, HL, CWCMC
Substation & Transmission Cables					
High Voltage Cable	Okoguard 69 kV	Okoguard/Okoseal	EPR/PVC	ICEA, AEIC	
Medium Voltage Power	1/C URD Cables 15 - 35 kV 1/C & M/C Power 2.4 - 35 kV	Okoguard URO-J 105°C	EPR/PC	ICEA, AEIC	
		Okoguard/Okoseal	EPR/PVC	UL, CSA	MV-105
		Okoguard/Okolon	EPR/CSPE	NEMA/ICEA	CT-USE
		CLX [®]	EPR/PVC	AEIC, IEEE	MC-HL
Submarine Power Cable	5 - 35 kV	Okoguard Submarine Cable	EPR/PE, EPR/PVC	NEMA/ICEA, UL, AEIC	MV-105

TYPICAL WIND FARM GRID



Okoguard®-Okoseal® Type MV-105

15kV Shielded Power Cable

One Okopact® (Compact Stranded) Copper Conductor/105°C Rating
100% and 133% Insulation Level

For Cable Tray Use-Sunlight Resistant



- A Uncoated, Okopact (Compact Stranded) Copper Conductor
- B Strand Screen-Extruded Semiconducting EPR
- C Insulation-Okoguard EPR
- D Insulation Screen-Extruded Semiconducting EPR
- E Shield- Copper Tape
- F Jacket-Okoseal

Okoguard®-Okoseal®

69kV Shielded Power Cable

Conductor/105°C Rating — 100% Insulation Level



- A Uncoated, Okopact (Compact) or Compact Stranded Copper or Aluminum Conductor
- B Strand Screen-Extruded Semiconducting EPR
- C Insulation-Okoguard EPR
- D Insulation Screen-Extruded Semiconducting EPR
- E Shield- 5 Mil Uncoated Copper Tape
- F Jacket-Okoseal

Okoguard® URO-J

35kV Underground Primary Distribution Cable-Jacketed Red Identification Stripes

Aluminum Conductor/105°C Rating
100% and 133% Insulation Levels



- A Conductor-Stranded Aluminum
- B Strand Screen- Extruded Semiconducting EPR
- C Insulation-Okoguard EPR
- D Insulation Screen- Extruded Semiconducting EPR
- E Concentric Conductor-Bare Copper Wires
- F Encapsulating Jacket-Okolene with three extruded red ID stripes and NESC lightning bolt

Okonite-FMR® Okolon® Type TC Cable

600V Power and Control Tray Cable

Multiple Copper Conductors with or Without Grounding Conductor/90°C Wet or Dry Rating

For Cable Tray Use - Sunlight Resistant - For Direct Burial



- A Stranded Copper Conductors
- B Okonite-FMR Insulation
- C Fillers, as necessary
- D Binder Tape
- E Black Okolon Jacket

District Offices, Manufacturing Plants & Service Centers



*Orangeburg, SC



*Orangeburg, SC - Compound Facility



*Richmond, KY



*Santa Maria, CA



*Ashton, RI



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