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CRITICAL EQUIPMENT FIRE SUPPRESSION SYSTEMS

WIND TURBINE

“A fire outbreak can catch you offguard when least expected. Your Wind Turbines are highly vulnerable to a fire outbreak.”

CAUSES OF FIRE

- Lightning strike
- Mechanical & Electrical Malfunction
- Maintenance
- Availability of highly flammable materials such as hydraulic oil and lubricants, composite materials, insulation, and polymers



CAUSING

- Business downtime
- Production loss
- Revenue loss
- Infrastructure loss
- Loss of human life

IF, A FIRE IGNITES, THEN :

- The only option is to patiently wait for the fire to burn out the nacelle

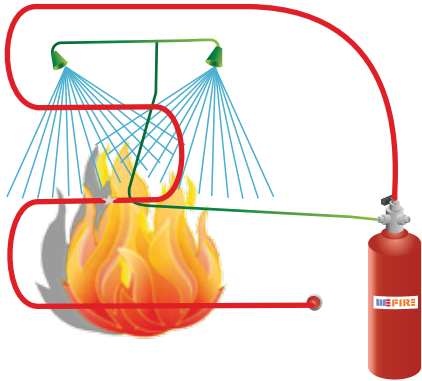
CHALLENGES

- Turbines today are built at a height of 100 to 120 metre, making firefighting literally impossible
- Remote locations of Wind farms often delays emergency response at site

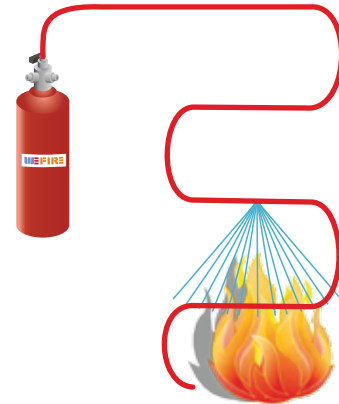


REDUCE YOUR INSURANCE PREMIUM ON CAPITAL GOODS

WEFIRE™ Nozzle Discharge System



WEFIRE™ Tube Discharge System



WEFIRE™ Solution

- Unlike a total room flooding solution, WEFIRE™ system works to protect the critical assets from within. Hence the system is versatile and not bulky & requires very less gas compared to traditional systems
- As per NFPA 850, following components in the nacelle and base tower should be protected with an automatic fire suppression system
 - Control Cabinet
 - Converter Cabinet
 - Hydraulic Station
 - Transformer
 - Brake- Capacitor Cabinet
- The WEFIRE™ Heat Detection tube upon detection, ruptures at the hottest point forming a nozzle like opening. This activates the cylinder valves and the clean agent gas discharges through the opening directly onto the fire
- The gas is non-conducting, non-toxic and leaves no residue; hence does not spoil expensive electronics and mission critical servers inside

WEFIRE™ Tube Discharge System

WEFIRE™ Heat Detection Tube is run across the identified hazard. This tube is then connected to the Tube Discharge System cylinder containing the extinguishing gas. Upon detection, the tube ruptures at the hottest point, releasing the extinguishing gas on top of the fire hazard. A hooter is also provided to alert people post system activation.

WEFIRE™ recommends the use of following clean agent extinguishing gas for most applications in a wind turbine

- 3M's Novec 1230/FK-5-1-1-2 based extinguishing agent
- FM200/HFC

ADVANTAGES



Simple & uncluttered design



Quick detection



24/7 Unsupervised fire protection



No electricity required



- No clean up in the equipment required post gas discharge
- Turnaround time to re-instate the system is a few hours so minimal damage and downtime
- Virtually ZERO maintenance
- Can be integrated with the BMS, Fire alarm system, SCADA

ABOUT US

WEFIRE™, a brand owned by Warriar Electronics® has an experience of installing several hundreds of WEFIRE™ critical component fire suppression systems across India and parts of Malaysia.

Established in the year 2010 in Pune (India), a period when startups were looked at ambiguously, Warriar Electronics® did not just survive, but thrived and achieved various growth milestones from being a sub-dealer to a dealer to a manufacturer within a decade; and has become the default choice of various OEM's for WEFIRE™ critical component fire suppression systems, serving across India.

At the heart of the company, lies its core values viz Excellence, Innovation, Integrity and Respect. These values not only translate into a niche & a reliable end product but also in the way its team reciprocates to client needs at every step. A company is only as good as its people & product and its product reflects the quality, intelligence and excellence of its people!



WE FIRE[®]

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WARRIER ELECTRONICS

“Sticker House”

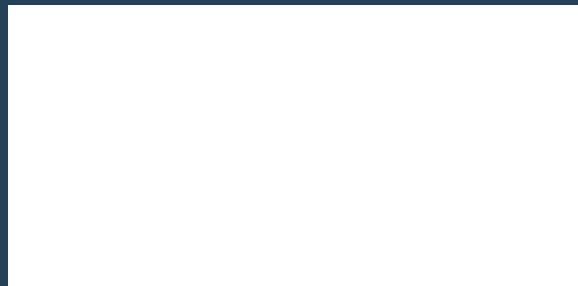
180/1, Ravet, Ganesh Nagar,
MIDC Road, Dehuroad,
Pune-412101.

 +91 8806 44 99 00

 info@wepune.co.in

 www.wepune.co.in

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& WE ACHIEVE WHAT WE COMMIT**