



# Wind Turbine Protection



## THE RISK: Catastrophic Fires in Remote Wind Turbines

Automatic fire protection of wind turbines is of great importance as the consequential damages of wind turbine fires is enormous. This risk has gained considerable attention as the number of wind turbines multiplies worldwide. Turbine fires originate from lightning strikes, from failures of generators or power converters, overheating of brakes, ignition of lubricants or hydraulic fluids, or numerous other factors. These fires often have catastrophic effect and are already causing millions of dollars of damage annually. The construction of the wind turbine, the threat of fire, and the remote and harsh nature of these facilities combine to make the Stat-X® aerosol fire suppression units uniquely suited to reduce this threat.

## THE SOLUTION: Stat-X Fire Suppression

### *Advanced Technology*

Stat-X highly-advanced fire suppression technology offers the lightest, most compact, and economical fire extinguishing solution available. A Stat-X unit consists of an extremely rugged, hermetically sealed, stainless steel canister containing a stable, solid compound. The canister is compact, durable and non-pressurized, and is capable of withstanding harsh, corrosive environments, including the severe marine setting of an off-shore wind turbine. In the event of a fire, Stat-X units automatically release ultra-fine particles and propellant inert gases which effectively extinguish fires using less mass of agent than any other conventional extinguishing system.



*Stat-X® extinguishing units are compact and modular*

### *Versatile Applications*

Stat-X units are available either as electrically activated units integrated with a variety of fire detection systems, or as thermally-activated units, requiring no external power source. Modular in size, Stat-X units are capable of fitting all high-risk component areas of the wind turbine, include the nacelle, generators, hydraulics, transformers, switches, and control cabinets.

### *Highly Economical*

Installation of Stat-X units requires minimal expense as no pressure-relief system or structural measures are needed. The simple and robust design requires virtually no maintenance, thereby reducing ongoing operating costs. Discharge of the extinguishing agent causes no harmful byproducts, so in the event of a fire, downtime is kept to a minimum.

## At-risk areas to be protected by Stat-X Fire Suppression Systems

- Controller
- Converter
- Switching System
- Braking System
- Generator
- Transformer



### **The Advantages**

- Effective fire suppression
- 24/7 automatic protection
- Extended service life
- Ideal for remote locations
- Rugged, sealed stainless steel construction
- Compact and modular design
- UL Listed (and many other certifications)
- Zero Global Warming potential
- Zero Ozone Depletion potential
- Non-toxic (when designed and operated to listing requirements)
- Easy retrofit option
- No maintenance required
- Low cost



Electrical cabinet protected with a Stat-X® extinguishing system.



Stat-X® unit discharging.



## Stat-X Technology Protects Critical Infrastructure Worldwide

Today there are thousands of Stat-X installations protecting lives and property on six continents.



### Approvals, Listings, and Certifications

The advanced technology used by Stat-X products is covered by NFPA® 2010 Standard for Fixed Aerosol Fire-Extinguishing Systems. Current approvals are shown below and more are pending. Contact your Stat-X representative for details, limitations, and the latest listings.



### Committed to Quality and Technology

Stat-X® is manufactured by Fireaway Inc., an ISO 9001 certified company with USA manufacturing in Minnetonka, MN and Minden, LA. Application questions? Contact an authorized dealer or Fireaway direct.

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