



Protecting Power at Its Source

End-to-End Fire & Life Safety for Critical Power Infrastructure

Power generation facilities sit at the heart of modern infrastructure. Protecting these assets is mission critical.

From combustible fuels and high-voltage equipment to unmanned operations and remote locations, these facilities face complex, high-risk hazards that can affect safety, uptime, regulatory compliance, and long-term operational viability.

ORR Protection delivers comprehensive fire and life safety solutions designed for power generation environments—helping owners and operators reduce risk, strengthen resilience, and maintain operational confidence.



Our End-to-End Capabilities

ORR provides lifecycle fire and life safety—from initial assessment through ongoing service—for consistent compliance and performance.

Engineering, Consulting & Design

- Hazard and risk assessments aligned with NFPA 850 and NFPA 855
- Code-required equipment testing, including large-scale BESS fire testing required by UL and NFPA
- Preconstruction planning, permitting, and performance-based system design
- Specialized protection for turbines, transformers, battery systems, and control rooms
- Plant control and SCADA integration
- Technical field assessments

Installation & Integration

- Turnkey installation and multi-system integration across complex environments
- Fire alarm, suppression, detection, and gas monitoring
- Coordination with EPCs, contractors, and facility teams

Inspection, Testing & Maintenance

- Code-compliant inspection and testing
- Preventive maintenance to reduce system failures
- Documentation and reporting for regulatory audits

Service & Repair

- Rapid response through a broad network of certified technicians
- Multi-manufacturer system support

Emergency Response & Planning

- Emergency response, business continuity, and recovery planning
- Training and preparedness for on-site teams

Understanding the Risk Landscape

Power generation facilities—fossil fuel, hydroelectric, nuclear, or renewable—present a unique combination of fire hazards:

Combustible Materials: Coal, natural gas, oil, hydrogen, and battery storage systems

High-Energy Equipment: Turbines, generators, transformers, and switchgear

Electrical Hazards: Arc flash, cable tunnels, substations, and control rooms

Remote & Unattended Sites: Delayed response increases risk severity

Operational Continuity Risks: Downtime can disrupt critical services and entire regions

Beyond safety, fire is a significant business continuity risk. A single incident can cause millions in losses, regulatory scrutiny, reputational damage, and regional service disruption.

Who We Serve

ORR Protection partners with energy owners, operators, and project stakeholders nationwide:

- Investor-Owned Utilities (IOUs)
- Municipal Utilities & Public Power Providers
- Electric Cooperatives
- Independent Power Producers (IPPs)
- Renewable Energy Developers
- National & Global Energy Portfolios
- Engineering, Procurement, and Construction (EPC) Firms
- Lithium-Ion Battery Manufacturers

We support regulated and deregulated markets across:

- Centralized generation plants
- Distributed energy resources (DERs)
- Microgrids and grid-edge infrastructure
- Mission-critical backup power systems



Why ORR Protection

Power generation fire protection demands technical expertise and disciplined execution. ORR delivers compliant solutions built for long-term reliability:

- **Industry Expertise:** Dedicated Power Generation specialists with real-world experience
- **Code & Compliance Leadership:** Knowledge of evolving NFPA and regulatory requirements
- **Manufacturer-Agnostic Solutions:** Support and integration across multiple systems
- **Scalable Deployment:** Consistent service across multi-site energy portfolios
- **Collaborative Execution:** Coordination with engineering, operations, and procurement teams
- **Rapid Response & Nationwide Coverage:** Broad access to certified technicians and responsive service

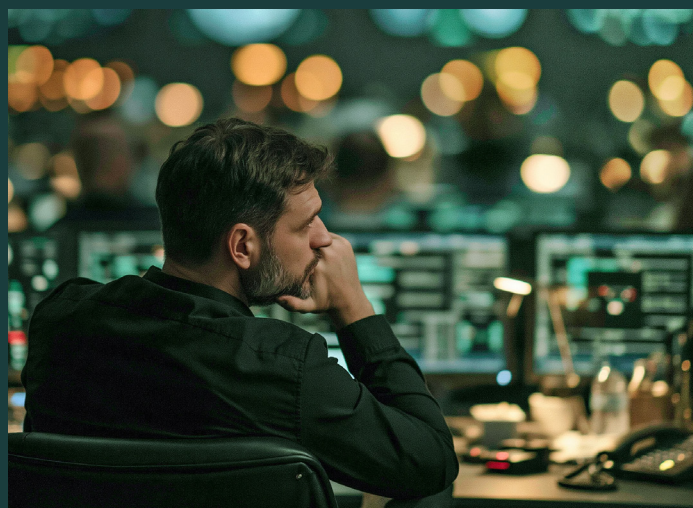
24/7 Smart Monitoring

Power generation assets don't stop. ORR's 24/7 Smart Remote Monitoring provides continuous visibility and rapid-response capabilities:

- Real-time alerts for fire and smoke detection, suppression system activation, power and system faults, carbon monoxide detection, tamper conditions, and system impairments
- Secure access through a mobile app or web portal
- Automated event tracking and reporting to enhance compliance
- Faster response, especially for unmanned or remote facilities

Result: Increased uptime, improved safety, and greater operational confidence.

Applications Across Power Generation



ORR supports major power generation facilities and critical plant areas.

Types of Facilities

- Hydropower Plants
- Coal-Fired
- Natural Gas
- Thermal
- Nuclear
- Renewables—Wind, Solar, BESS

Areas We Protect

- Turbine & Generator Enclosures
- Transformer Yards & Substations
- Cable Tunnels & Cable Trays
- Control Rooms & Data Centers
- Fuel Handling & Storage Areas
- Cooling Towers & Auxiliary Buildings

Fire Protection Standards & Compliance

Stringent fire protection standards govern the power generation industry. ORR's subject matter experts help clients maintain compliance and alignment with key codes, including:

- **NFPA 850** – Recommended Practice for Fire Protection for Electric Generating Plants and HVDC Converter Stations
- **NFPA 72** – National Fire Alarm and Signaling Code
- **NFPA 13** – Standard for the Installation of Sprinkler Systems

By staying current with evolving standards, we help clients reduce risk, support inspection readiness, and align protection strategies with operational requirements.

Strengthen Fire Protection Across Your Energy Operations

From a single facility to a multi-site portfolio, ORR Protection delivers the expertise, reach, and lifecycle support to protect critical assets and keep operations moving.



PROTECT CRITICAL POWER. REDUCE REAL-WORLD RISK.
Contact ORR today. [800.347.9677](tel:800.347.9677) | [ORRPROTECTION.COM](https://www.orrprotection.com)

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Early Detection. Precise Response. Complete Protection.

**LET'S GET
STARTED**

800.347.9677
[orrprotection.com](https://www.orrprotection.com)

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