

Electrical Services

Complete Facility Power



Resilient from the start: Dependable power, safety, and sustainability.

Every enterprise depends upon reliable power systems. And the challenges are daunting: unstable grid infrastructure, rising energy costs, shrinking budgets, increasing building demands, code compliance, and more.

ABM has invested heavily in microgrid and uptime power solutions so facilities operate independently, uninterrupted, and efficiently for years to come.





Power Up Performance

Your potential shouldn't be grid-dependent

It's a fact. New technologies and the facilities that power them are straining the grid. Public utilities can't keep up with today's demands. So facilities look to ABM Electrical Engineering Services for alternatives. Solar, storage, and generation enable continuity even in the face of extreme weather and deteriorating grid conditions.

Meet your lifecycle partner

Whether you're considering new construction or upgrading infrastructure, everything must work together. The design stage is as important as commissioning and startup. ABM custom tailors solutions to best fit your needs. And self-performs installation and commissioning that meet current standards and certifications to improve the safety and productivity of your facility and employees. Onsite experts who know your system, as well as how to service and protect it.

Decommissioning can cause unexpected expenses. ABM helps facilities minimize OpEx and CapEx by anticipating needs. Our nationwide scale and strategic purchasing agreements reduce strain on your budget. The result? The right equipment, at the right time, at an affordable price. And the lights stay on.

How it's done: The Asset Management Program

A proactive maintenance program that:

- ✓ Improves reliability
- ✓ Increases equipment uptime
- ✓ Enhances safety
- ✓ Reduces operating & replacement costs

The ABM Asset Management Program (AMP) delivers supercharged customer service from a dedicated team. Our experts customize a unique program for your facility to safely manage your electrical distribution system by evaluating your operations, loss exposure, and potential for injury.

AMP protects against:

- ✓ Accidents
- ✓ Equipment failure
- ✓ Unplanned costs

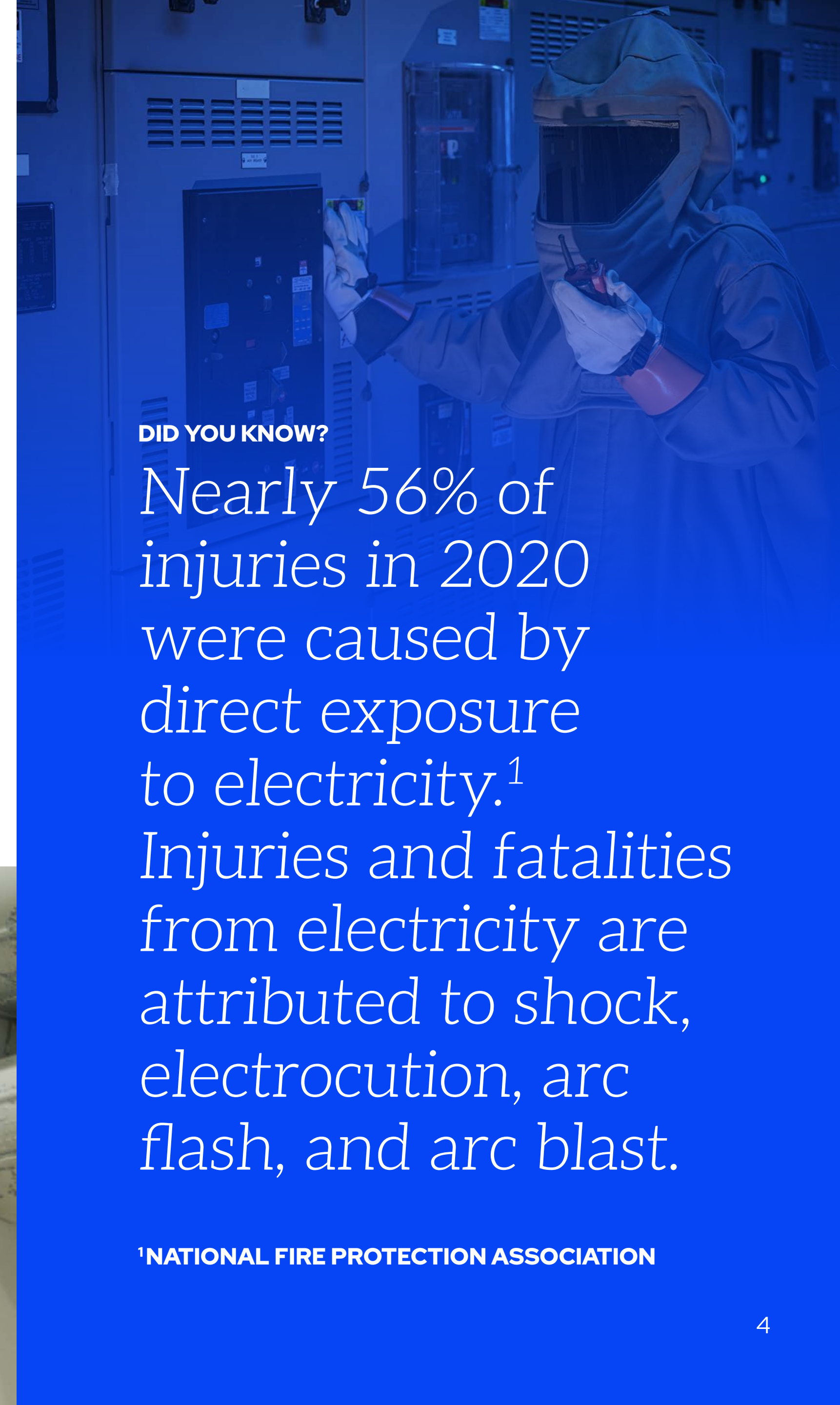
Demand better Ops, lower OpEx

The ABM nationwide network of NETA technicians, electricians, power specialists, and electrical engineers helps organizations sustain long-lasting, cost-efficient strategies. Proactive maintenance, including system lifecycle assessments, ensures your equipment operates reliably for years to come.

Stay safe. Stay current.

Certified, qualified electrical maintenance saves lives, equipment, and costs—including fines, liability, and medical expenses. ABM delivers with:

- 150 NETA technicians
- Reliability testing and maintenance
- Customized Training Program
- Service expertise for high-, medium-, and low-voltage equipment
- NFPA 70E Standard for Electrical Safety: ABM administers the tests and creates the follow-up plan to ensure NFPA 70B compliance



DID YOU KNOW?

Nearly 56% of injuries in 2020 were caused by direct exposure to electricity.¹

Injuries and fatalities from electricity are attributed to shock, electrocution, arc flash, and arc blast.

¹NATIONAL FIRE PROTECTION ASSOCIATION

Acquire the Expertise You Need

With two recent acquisitions, ABM is the clear industry leader in comprehensive energy solutions. RavenVolt provides everything facilities need for grid-interactive turnkey microgrid solutions. Quality Uptime Services delivers quality power continuity with equipment such as UPS, batteries, and capacitors.

Stay online, and get ahead behind the meter

Procurement

Our national vendor relationships ensure the best price—and fast installation—of everything you need to reduce your dependence on grid power with solar, storage, switchgear, and generation solutions.

Construction

Together ABM, RavenVolt, and Quality Uptime Services have completed thousands of generator and fuel cell projects nationwide, generating more than 3 gigawatts of grid-independent power for our clients—the equivalent of powering 2.25+ million homes.²

Maintenance

Every stage of your equipment's lifecycle is covered with preventative maintenance by industry experts across Electrical, Mechanical, Civil, and Chemical Engineering.

² <https://www.cnet.com/home/energy-and-utilities/gigawatt-the-solar-energy-term-you-should-know-about/>



The Power to Perform Across Your Facility

ABM POWER SOLUTIONS

A Utility Line/Feed

Seasonality affects the load and power availability across the grid and the amount of power your operation requires. This heightens the need for proper maintenance and testing for your Current ratio and Current transformer performance.

RAVENVOLT

B Solar Array

RavenVolt's technology complements ABM's decades of experience in solar to deliver sustainable behind-the-meter solutions.

ABM POWER SOLUTIONS

C Transformer

Electrical Maintenance & Testing:

- Insulation integrity (Megger test)
- Oil analysis
- Power factor (Doble test)
- Relay testing for temperature and pressure
- Turns ratio
- Winding resistance

RAVENVOLT / ABM POWER SOLUTIONS

D Modular Switchgear Maintenance & Testing

- Acceptance testing
- Control wiring insulation resistance
- Insulation integrity
- Relays

QUALITY UPTIME SERVICES

E UPS System
(Uninterrupted Power Supply)

- Automatic Transfer Switch (ATS) and overhaul services
- Maintenance & Testing for Emergency System Services; Contact resistance; and Insulation resistance

ABM POWER SOLUTIONS

F Panel Board & Circuit Breakers

- Circuit Breaker Overhaul Services
- Connection, control wiring, and contact resistance
- Connection resistance
- Control wiring insulation resistance
- Insulation integrity
- Ground resistance and fault relays

RAVENVOLT

G Generators

- RavenVolt private label diesel and natural gas generators provide operations peace of mind in peak shaving markets.
- Maintenance & Testing includes connection, insulation, and winding resistance, as well as load bank.

RAVENVOLT / QUALITY UPTIME SERVICES

H Battery Bank/BESS
(Battery Energy Storage System)

- Full BESS integration with packaged software solutions
- Maintenance & testing across SCADA/DCIM, controls, and life safety systems services; Connection resistance; Impedance; Load bank; and Voltage to ground and equalizing voltage
- Preferred installation partner for a large BESS hardware/software supplier

ABM POWER SOLUTIONS & EMOBILITY

I EVSE
(Electric Vehicle Supply Equipment)

Electrical conductors, related equipment, software, and communications protocols delivering energy efficiently.



ABM is an independent electrical testing and maintenance company that manages the lifecycle of electrical power distribution systems through electrical testing, maintenance, and full-service engineering services. Our services include acceptance testing, engineering services, power quality solutions, reliability testing and maintenance, safety training, life extension and overhaul services, and the Asset Management Plan (AMP). Additionally ABM is expanding its capability portfolio to add electrical infrastructure engineering, procurement, and construction. We are the go-to power solutions provider for major U.S. corporations, hospitals, institutions, utilities, industrial and commercial complexes, as well as military and government agencies.

ABM Electrical Power has led the industry for over fifty years, and was instrumental in founding the InterNational Electrical Testing Association (NETA) in 1972. Today it is one of the few NETA companies that provides expertise internationally. Building on decades of expertise, ABM solutions portfolio also includes electrical infrastructure engineering, procurement, and construction.

Learn more at **ABM.com/Electrical** or call **(866) 448-4979**



FACILITY ENGINEERING & INFRASTRUCTURE SOLUTIONS

ABM drives possibility through facility, engineering, and infrastructure solutions across a wide range of industries. Our diverse, inclusive teams work together to advance a healthier, more sustainable, ever-changing world. Under our care, systems perform, businesses prosper, and occupants thrive. Every day, over 100,000 of us partner with our clients to care for the people, places, and spaces important to you. We are making spaces smarter, modernizing infrastructure, and transforming facilities to become more resilient.

Driving possibility, together.