

The image shows an industrial facility at night, illuminated by warm lights. In the foreground, there are large white storage tanks and a building with a grid of windows. Two tall, dark smokestacks rise prominently in the center. The background features a body of water with several ships and distant mountains under a dark, cloudy sky. The Powerside logo is in the top left corner.

POWERSIDE®

A single small investment in  
your medium voltage VFDs can  
be a big boost for operations

**Introducing DriveScan: A revolutionary  
remote conditional monitoring system**

# Reliability engineers are doing everything in their power — and it still isn't enough to keep power drives in prime condition.

The issues that can bring down a medium voltage drive (VFD) are often insidious. Even with attentive human monitoring, failures can occur without any obvious signs. Poor terminal connections could be hidden from view. Capacitor electrolytes may dry out. Over-voltage could lead to a breakdown of aluminum oxide layers and cause a short circuit. The drive fails, leaving your business idle and facing costly repairs and potentially hazardous conditions.

## Internal diagnostics are only helpful to a point, and they don't tell you about overall drive health.

It's easy to be lulled into a false sense of security if the drive is humming along. But chances are something will go wrong. And since manufacturer-provided fault codes are built into the drive, they may not be able to tell you much.

**Research shows that a single VFD will cost an organization, on average,**

**\$100,000** in downtime losses + **\$15,000** in emergency services + **\$9,000** in preventive maintenance **≈ \$124,000 per year**

| There's a more effective way to manage VFDs.  
| **It can cut these costs in half.**

# Introducing DriveScan: The first brand-agnostic remote conditional monitoring system designed specifically for VFDs.

DriveScan provides a safe, efficient and economical way to monitor every brand of every VFD in your fleet, from anywhere, in real-time, under day-to-day operating conditions.

## Instead of...

Relying on internal diagnostics that only provide a symptom snapshot, not a root cause

Endless man-hours and downtime testing and inspecting components just to find the actual problem to be fixed

Preventive maintenance schedules built solely around manufacturer recommendations and educated guesses

Different monitoring systems for each brand of drive in your fleet

## You get the value of...

**Continuous, comprehensive monitoring** that detects and alerts you to intermittent and evolving problems before they're noticeable

**Fast Data sampling** (in excess of 30kHz) that's required to provide an accurate picture of system health and allow failure prediction

**AI-powered predictive insights** that inform preventive maintenance decisions and produce strategic analytics

**One monitoring solution** for a comprehensive view of fleet health

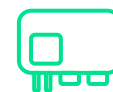
# Reduce downtime and its downstream impact

With DriveScan, you're not just alerted to severe events. You also get **immediate information about various components and conditions such as Power Supply modules and more.** This is the enhanced visibility engineers need to hit the ground running with repairs.

VFD experts are in high demand and short supply. You might wait hours or days to get someone to your site. By diagnosing the root cause of an issue at the onset, you can secure parts and establish a repair plan ahead of time. You can also better inform your internal and external customers with accurate status updates.



## Keep a steady eye on:



Power supply modules



Temperature



Humidity

DriveScan can **cut the total cost** of an outage **by up to 50%** and get you **up and running 3-7 days faster.**



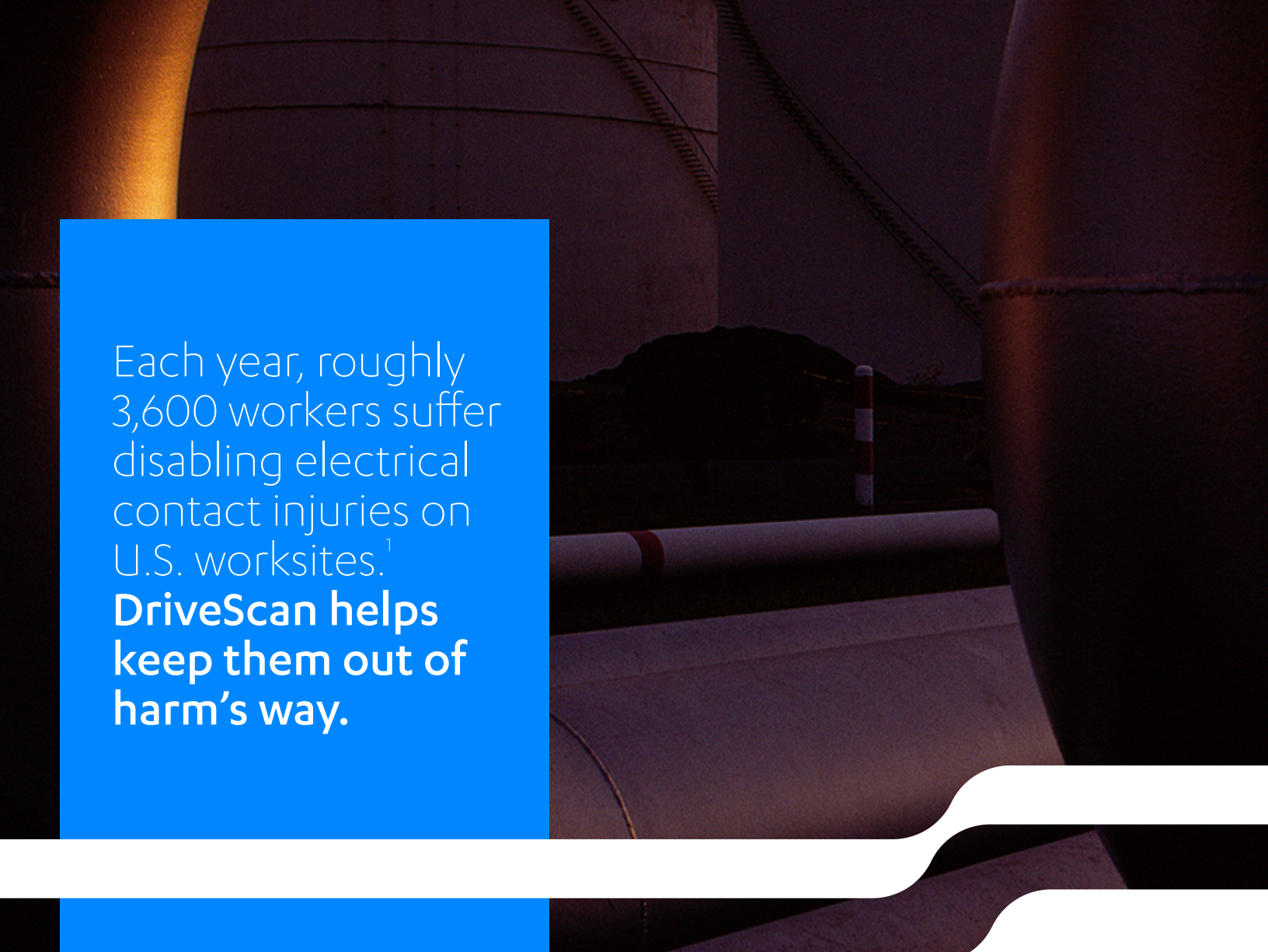


## Sharpen your insight with AI

DriveScan's cloud-based fleet management software provides a complete view of your entire fleet from any location. **The system measures and trends external and internal parameters every 60 seconds**, giving you a breadth and depth of information at a speed not humanly possible. Dashboards and status indicators make it easy to drill down into individual drive performance.

Meanwhile, historical data is processed with artificial intelligence that looks for trends diverging from baseline, enabling your teams to **more accurately predict how and when drive failures might occur**. The algorithms continue to get more acute over time.

Maintenance planners and reliability engineers find these analytics **invaluable for planning upgrades and outages.**



Each year, roughly 3,600 workers suffer disabling electrical contact injuries on U.S. worksites.<sup>1</sup>

**DriveScan helps keep them out of harm's way.**

## Protect people from dangerous electrical work

DriveScan promotes safe operations in two ways:

**1**

**Continuous monitoring** alerts your teams to potentially hazardous conditions that may be developing, **allowing for swift proactive response.**

**2**

**Remote technology** minimizes the need for personnel to enter electric rooms to access data. **Limit worker exposure and reduce extra time** spent undergoing safety protocols for entry.



## Benefit from more than 50 years of power quality and power monitoring experience

DriveScan was conceived and designed by people who have spent their careers face-to-face with VFDs.

Decades of troubleshooting and repairs went into building a **comprehensive solution that does the work of multiple experts at a fraction of the cost.**



# Schedule a DriveScan demo and see what you've been missing.

See how much—and how quickly—your facility can begin saving.

[powerside.com/drivescan](https://powerside.com/drivescan)

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