

For Immediate Release

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San Francisco Municipal Transportation Agency Switching Out Lead-Acid Battery Backup For Traffic Signals, With ZincFive's Intelligent, Higher Performance & Compact Nickel-Zinc Uninterruptible Power Supply

To "Move People Safely & More Efficiently," San Francisco Begins Deploying the Award-Winning ZincFive UPStealth® at Existing & Future Signals & the Van Ness Bus Rapid Transit Project

PORTLAND, Oregon—(October 2017)— San Francisco, one of the nation's most compact, large cities, is choosing a compact solution to ensure people move safely and efficiently through signalized intersections. The [UPStealth uninterruptible power supply](#) (UPS) is a higher performance, self-maintaining, environmentally safe, nickel-zinc alternative to lead-acid battery backup. [ZincFive](#) is an intelligent energy storage and delivery solutions company for [Transportation](#), [Data Centers](#), [Automotive](#) and other mission critical applications. Next month, the San Francisco Municipal Transportation Agency (SFMTA) will begin swapping out lead-acid traffic signal battery systems, with ZincFive's UPStealth. SFMTA also plans to deploy UPStealth systems at new intersections and with the three-year, Van Ness Bus Rapid Transit Project. San Francisco has over 1,200 existing traffic signals.



The Compact ZincFive UPStealth Battery Panels

"We Were Looking for the Next Generation of Uninterruptible Power Supply"

"San Francisco is boxed in and surrounded by water on three sides, so our street network and traffic signals play a huge role in moving people safely and efficiently," says SMFTA Sustainable Streets Division's Traffic Signal Shop Manager and Traffic Signal Engineer, Eddie Tsui. "We didn't have the budget to maintain the lead-acid batteries, which sat idle for years. We were looking for something else—the next generation of uninterruptible power supply. After testing the UPStealth, we found its size, weight and ease of installation was game changing and as we develop new signals across the City, we'll incorporate the UPStealth. We're looking forward to protecting more of our intersections with ZincFive's nickel-zinc UPS."

Why San Francisco Chose the Intelligent ZincFive Solution Over Lead-Acid

Sidewalk Real Estate Preserved—UPStealth doesn't require an expensive, secondary, "piggyback" cabinet, as does lead-acid. The high power density of the ZincFive UPS enables two compact battery styles: a flexible battery sleeve that fits between the cabinet shell and the rack, or a compact shelf-mounted battery.

Ease of Maintenance & Preventing Injuries—SFMTA crews found it difficult to maneuver the large and heavy lead-acid batteries in and out of the small, tight secondary cabinets. "The UPStealth's size and light weight make them easy to install and also to carry around extra batteries for hot swapping. We'll be able to extend the nickel-zinc UPS even longer and that's hard to achieve with lead-acid," said Tsui.

Protection During Outages—When a large-scale power outage hits San Francisco, emergency responders must manually control traffic at the compromised intersections. UPStealth keeps traffic lights operating, even when the power dies, allowing responders to attend to other emergency needs. Tsui said SFMTA is looking forward to taking advantage of the UPStealth's remote monitoring system, alerting crews when an intersection loses power, when it goes into battery backup, how much run time is left and when utility power returns.

ZincFive CEO/Co-founder, Tim Hysell said, "San Francisco Municipal Transportation Agency is a leader in integrating intelligent transportation systems into its world-class city. We're proud to play a role in making mobility for San Francisco residents and visitors safer, more efficient--and without the risks of lead-acid batteries."

Disruptive Technology Awards Winner

ZincFive's energy storage and delivery systems have won [2017 Most Disruptive Technology](#) from the Oregon Technology Awards; [Innovation Award](#) from the Portland Business Journal; and is a finalist for [Growth Stage Award](#) from Oregon Entrepreneurs Network.

About ZincFive, Inc.

Winner of the Oregon Technology 2017 Most Disruptive Technology Award, ZincFive, Inc. is the world leader in innovation and delivery of nickel-zinc based energy storage and delivery solutions for mission critical industries like Intelligent Transportation, Data Centers, Automotive and more. With 73 patents and 30 patents pending, ZincFive leverages nickel-zinc chemistry and optimized battery control systems to deliver innovative, environmentally safe, highly recyclable, energy efficient and scalable solutions. ZincFive is a privately held Company based in Tualatin, Oregon. zincfive.com

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