

Singapore infrastructure leader accelerates facilities management with hyperlocal weather intelligence



Maximizing storm response for office landscaping teams

OVERVIEW

For more than a half-century, a major infrastructure corporation has helped guide development and progress throughout Singapore. To aid that work, they operate two campuses on the north and east sides of Singapore. Each campus is a large office complex with buildings, walkways, and trees. Keeping those facilities safe and beautiful is the responsibility of the facilities management team. To support that team's productivity, the corporation partnered with Acez, a Davis Instruments reseller, to increase their facilities management team's understanding of day-to-day weather conditions and improve response to severe weather events on campus.

Overcoming operational challenges

The infrastructure corporation's facilities management and landscaping teams needed to make the best possible use of their limited human resources to ensure their two campuses looked beautiful and were safe at all times. They were looking for a way to understand when a storm or wind event was severe enough to do a full sweep of the campus. The team required a solution that would:

1. GUIDE THE LANDSCAPING & FACILITIES MANAGEMENT TEAMS' WORK

The solution needed to help the internal FM team and landscaping contractor make decisions about how to allocate assets day to day.

2. INFORM ON-SITE STORM RESILIENCE & EMPLOYEE SAFETY

The solution needed to tell the landscaping team what to expect and alert them of conditions in real time.

3. MAXIMIZE RESPONSE TIME FOR WEATHER-RELATED CLEANUP

The solution needed to provide intelligence the facilities and landscaping teams could use to recover from storms quickly.



MEET ACEZ INSTRUMENTS

Acez Instruments Pte Ltd is a quality supplier of instrumentation and control equipment in the Southeast Asia Region. Established in 1985 and strategically headquartered in Singapore, Acez has transformed into a truly recognized company with a reputation for providing quality instruments, calibration, and repairing services, as well as manufacturing. As a one-stop instrumentation house, Acez provides a wide range of measurement and control products ranging from temperature, humidity, pressure, flow, calibration, environmental measurement, and beyond.



The weather stations provide oversight on localized weather conditions for managed areas where ground staff are not always stationed on-site. This allows the facilities management and landscaping vendor to deploy manpower resources more effectively by activating workers only when necessary and to the specific, targeted site.

— Thomas Pang
Acez Instruments Pte Ltd

Solution: On-site weather monitoring powered by Davis Instruments

The infrastructure giant partnered with Acez Instruments to build a local weather monitoring and alerting system for each of their two campuses. Each system includes an on-site weather station, a gateway that extends that data over cellular, and a custom alarm/notification system that tells the facilities and landscaping crews exactly when a response is required.



VANTAGE VUE WEATHER STATIONS

The Vantage Vue Wireless Model 6357 provided the rugged, durable stations needed to measure localized wind conditions on both campuses.



ENVIROMONITOR GATEWAY FOR DATA TRANSMISSION

The EnviroMonitor Gateway allowed the corporation to provide data from their weather stations to facilities management professionals in near-real time.



CUSTOM WIND-BASED ALARMS

As soon as the wind speed threshold of 40km/hr is maintained for ten minutes, users receive an alert to trigger a proactive sweep for storm damage.

Wind resiliency in action for the customer

Now, the corporation has a solution in place at both of their campuses that delivers major value to the facilities team, landscaping contractors, and every employee or visitor who doesn't have to worry if it is safe to cross campus. Thanks to their collaboration with Acez Instruments, they have an approach to facilities management that's just as innovative as the infrastructure they help build across Singapore.



WHY WORK WITH AN AEM PARTNER?

Acez Instruments, the infrastructure corporation's partner throughout this project, is just one member of a vast network of international partners and resellers that support the AEM family of brands across the world. AEM brands and our partners empower communities to survive – and even thrive – in the face of today's escalating environmental risks.

If you're wondering what sets AEM, our family of brands, and our partner network apart from the rest of the crowd, it all comes down to three things:



1. PERSONALIZED WEATHER MONITORING SOLUTIONS

AEM, our family of brands, and our international partner/reseller network are all proud to believe in customer-centric solutions that are scaled to your needs.

2. WORLD-CLASS HARDWARE & CUTTING-EDGE SOFTWARE

The AEM family of brands has the ideal station, sensor, data logger, or interpretative software platform for any use case, application, deployment, or budget.

3. LOCAL SUPPORT & EXPERTISE ACROSS THE GLOBE

We don't try to support the whole world from a U.S. office; instead, we maintain a truly global network of configuration, enablement, and support experts.