

THE

December 2017

# UTILITYSOURCE

Products and Services for Today's Electric, Telecom, and CATV Utilities

## Power Through Planning for Power Outages

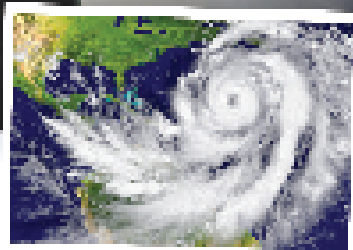


# WHERE TIRES DARE NOT TREAD

Utility companies can rely on industry-specific rubber track carriers

# CONSULT, CUSTOMIZE, REPEAT

## EZ STAK Delivers Mobile Workspace to ComEd Ahead of Hurricane Season



June 1st marks the beginning of hurricane season in the Atlantic Ocean, and even though it isn't official, it means that a full season of hurricanes is just a few days away. Utility companies still have to be prepared for major outages. ComEd, the largest electric utility in Illinois, knows these storms well and knows it has organized, dependable response vehicles that are always ready to roll.

**The Problem** ▶ ComEd needed 200 40' x 8' x 10' 28' tall long legacity support trailers with power hookups and a workspace with storage and storage areas. And they needed it fast. A project like this typically takes a year to complete. The trailer had to be done in half the time to be ready for hurricane season. And ComEd needed to be built tough enough to withstand delivery abuse.

**The Solution** ▶ From the beginning, EZ STAK kept in close contact with ComEd. In the interim, they knew precisely how ComEd would want to utilize their trailers. Once they had their specs, they created a custom 210 model of the trailer. ComEd loved the design, especially the tough lightweight aluminum cabinets. So EZ STAK had to work, changing in the most recent energy construction to deal with the complex electrical requirements and to make sure the trailer would be as strong as it is.

**The Result** ▶ EZ STAK now offers the best way to become involved early ensuring ComEd had plenty of time to have the trailer service and delivered by June 1st. It's a really good example of what we can do for you. Paul, Lawrence, the STAK's National Field Manager, "It's a great flexibility in deployment to the customer. It deploys working in a tight time line and it comes with a heavy-duty member. You have to build stuff strong enough to withstand that use and we do that here."



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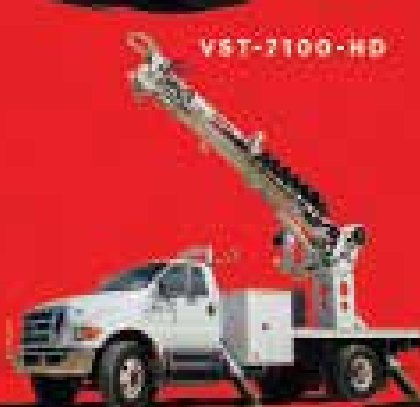
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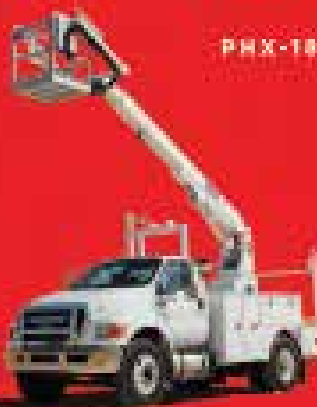
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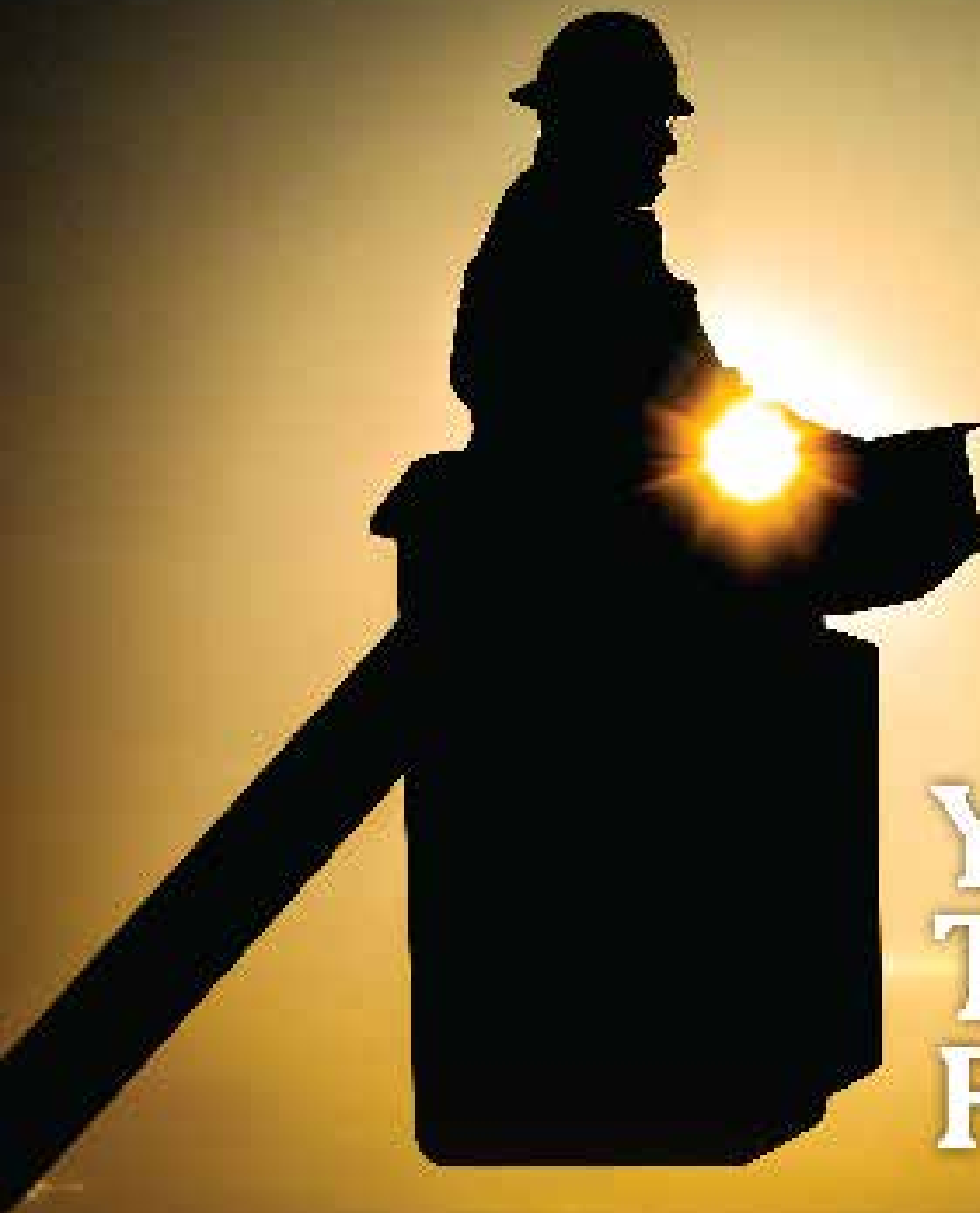
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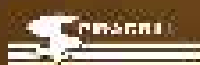
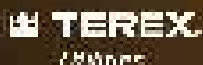
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IFS Selected to Streamline CORIX Utility Services Back Office

IFS, the global enterprise applications company, announces that CORIX Utility Services, a utilities infrastructure support company based in Wauwatosa, Wis. and Vancouver, Canada, has selected IFS Field Service Management™ to streamline back office and customer-facing elements of its operations, maintenance, and services work for water, gas, and electric utilities, universities and government agencies.



Across the United States and Canada, CORIX Utility Services (Corix) provides end-to-end metering infrastructure installations and supports field services for its customers, from meter and collector deployments, to meter reading, repair, and maintenance, to call center operations.

From small to large scale projects, this requires complex planning and logistics management, as well as constant communications, to deliver a positive customer experience and satisfactory customer service to its clients, their customers and key stakeholders. Corix's commitment to delivering the highest standard of service to its utility customers was a primary reason the company selected IFS Field Service Management software along with IFS Planning and Scheduling Optimization.

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Milwaukee Tool Expands Three Mississippi Locations

Milwaukee Tool is expanding operations at three Mississippi locations, investing \$33.4 million and creating 660 jobs. The expansions are planned for the company's sites in Greenwood, Jackson and Olive Branch.

"Once again, Milwaukee Tool confirms its commitment to doing business in our state by growing its existing operations and providing hundreds of Mississippians with good, stable jobs. The state values the partnership we share with Milwaukee Tool and is thrilled to play a role in the industry leader's continued growth," Gov. Phil Bryant said.

Milwaukee Tool will create the additional jobs at all three of its Mississippi facilities over the next four years to accommodate cordless power tool manufacturing, accessory manufacturing and additional distribution capacity.

"Milwaukee Tool is dedicated to driving growth and creating new jobs in the United States," said Milwaukee Tool Group President Steve Richman. "We currently employ over 3,500 people in the USA, more than 1,600 of which are in Mississippi. We are deeply committed to investing in our people as we continue to deliver disruptive innovation and the highest quality products for our users and distribution partners."

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### Terex Utilities and Xuzhou Handler Special Vehicles Co., Ltd. Sign Letter of Intent

Terex Utilities and its dealer Xuzhou Handler Special Vehicles Co., Ltd. have signed a letter of intent for Xuzhou to purchase 5,000 units of insulated aerial devices from Terex over a five-year period, with a total value of more than USD 250 million. These products will support the continuing improvement and ongoing adoption of live line work practices in the Chinese public utility sector.



"It's been an honor for Terex to participate in the Trade Mission," said John Garrison, President and CEO of Terex Corporation. "The visit helped us renew our longstanding relationships in China and to build new ones. We thank Xuzhou Handler for their business and look forward to working with them and with other customers and prospective customers in China to continue to advance safe work practices for working at height and on live lines. In so doing, we expect that all involved will benefit from expanded business opportunities.

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# WHERE TIRES DARE NOT TREAD



## Utility companies can rely on industry-specific rubber track carriers

The convenience of wheel-mounted equipment makes trucks and trailers ideal for over-the-road transport, but they are rendered useless by a utility installation or maintenance job in compromised ground conditions. Rubber track carriers, on the other hand, get people and equipment to utility applications in places wheeled carriers cannot go, such as jobs on soft wet ground or undeveloped or protected environments. The track carrier spreads the load over a large surface area, lowering ground pressure while providing a highly stable equipment platform to work from.

While most manufacturers have designed their track carriers from snow grooming machines, Morooka designed its carriers specifically for heavy-duty use in rigorous agriculture, forestry and construction applications from the bottom up. That same industry-specific dedication is at the core of Morooka USA LLC, headquartered in Ashland, Virginia, since 2005. Morooka is the only manufacturer of rubber track carriers wholly made in America, with models designed and built specifically for use in North American applications.

Now Morooka has added a rubber track carrier line dedicated to the North American utilities industry.

Ken Byrd, president of Morooka USA said the company is always looking at how to meet the unique needs of end-users. "We had looked at what our construction models were doing for the U.S. oil and gas industry. So much of that work is installing pipeline infrastructure in remote, undeveloped, hard-to-access areas. We realized the same was true for the utilities industry. Electrical transmission and distribution lines are often in those same types of environments. Our construction models could be retrofitted to meet most of their needs, and there are other manufacturers that do exactly that. But Morooka has always matched its models to the job."

That's why five years ago Morooka USA began working with North American utilities customers to create a dedicated line of Tier 4-compliant carriers, the VDL-series. Morooka has six models currently available and another being introduced at

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ICUEE later this fall, the MST4500VDL. “We are committed to the utilities industry. We’ve pushed the limits of what carriers can do for them with the 125-foot bucket reach of the 4500VDL. To be able to go off road in any environment at that size and price point – one client has already told me it’s a real game-changer for them.”

#### Utilities-specific

The VDL models have the same robust design of Morooka’s construction carrier models, and like them, are made from U.S. steel, by U.S. personnel with U.S.-based customer support. Beyond that, Byrd said, the carriers differ in several key ways.

“One of the primary differences is engine placement,” Byrd said. “Construction models have center-frame mounted engines, but utilities companies attach digger derricks and bucket lifts to the carriers. They need room to mount the masts and to lay them down for ease of transport. We keep the center well freed up by offsetting the engine.” Byrd noted that the open center well has also been advantageous for attaching personnel carriers and hydro-seeders.

Another major change has been accommodating attach-

ments common to the utilities industry that require extended frames. “Again, it’s because our design and manufacturing facilities are right here in the U.S. Our frames are built right here, so it’s easy for us to customize them to North American equipment specifications. We don’t have to piece on an extension to an existing frame. We simply build one solid frame to whatever the specs call for.” The built-to-spec frame eliminates any concern for overstressing a weld at the extension, since there is no extension welded on. “Our frames are solid.”

Curt Unger, Morooka USA Vice President of Sales, said the ability to build to spec has additional benefits. One is mobilization readiness. Most of the VDL models meet the DOT-approved width of 8 feet 6 inches for permit-free transportation. “Utility companies might need to respond immediately at any time,” Unger said. “When they get called out because a snowstorm Friday evening took down a distribution line, they can’t be held up waiting through the weekend to get a permit. With our carriers, they just go.”

Byrd said, “We manufacture a good share of our utilities models as OEM proprietary designs,” Byrd said. “We’ll custom-design and build to the dimensions they specify.” Customization is made easier by the new carrier line’s mounting



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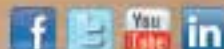
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frames, which duplicate the mounting frame of a wheeled carrier to easily accept digger derricks and lift buckets without special adaptation. "Other makes of carrier need a sub frame," Byrd said. "Ours does not. One of our OEM clients told me this has been saving installers about 40 to 50 hours of build-time per unit. Fewer man-hours and lower material cost represent a huge savings on every Morooka carrier installation."

### Morooka tough

Unger said reliability is critical to utilities applications. "Your track carriers will get you to places that wheeled vehicles just can't go – so that much farther from help if you need it. Take the snowstorm scenario again as an example. You need to get your equipment out there on a weekend, and you need to trust that it won't let you down once you're there."

Unger said that's why Morooka carriers make such good vehicles for the utilities industry. The line of carriers shares the robust build of all Morooka lines. One key area is tread and carriage. The aggressive, straight bar tread pattern favored by the construction and oil and gas industries gives utilities customers the same benefits: increased traction, reduced tearing and wide ground pressure disbursement to track easily over muddy or sandy soils.

"That's one of the most common concerns I hear about rubber track carriers, tread life," Unger said. "How does rubber hold up? But all our tracks were made specifically for long life under rigorous use." Morooka tracks feature its Continuous Steel Core technology. Their helically wound steel cords have no inside joints to fail. The one-piece design also prevents stretching and derailing. "CSC eliminates about 95 percent of the traditional causes of rubber track failure," Unger said.

"Our treads also have a greater number of contact points than other makes." Greater contact with the ground, Unger said, lowers ground pressure, placing less stress on any given contact point with the treads and contributing to a longer service life. "Overall our units average ground pressure is less than a man's footprint."

The footprint of the average human male exerts a ground pressure of about 8.0 psi. The MST1500VDL model with 225 hp Tier 4 Cat engine exerts a ground pressure of only 2.6 psi, though the unit is 23 feet 8 inches long with a width of 8 feet 6 inches and weighs 21,660 pounds. Fully loaded to its 20,000 pound maximum capacity, its ground pressure is only 5.0 psi.

The largest of the 8 foot 6 inch wide Morooka models to date is the MST2500VDL with 250 hp Tier 4 Cat engine. At 27 feet 6 inches long, it weighs 29,000 pounds and exerts a ground pressure of 2.6 psi. With a 30,460-pound maximum load, its ground pressure is still just 5.1 psi.

Morooka carriers are easy to maintain, and excellent parts availability minimizes downtime for service and repair. All engines for the North American market feature top brand-name, Tier 4 engines from Cummins, Cat and Kubota. "And the fuel tanks, the cabs, the frames – 95 percent of everything on our carriers is made right here in the U.S., so we have excellent in-stock availability of the most commonly needed parts, with total parts availability for our carriers rated at about 88 percent at any given time."

Operator safety and comfort surpass standards for the North American market. Units feature ROPS-certified frames and cabins, Danfoss® joystick controls and easy-to-read digital display, backup cameras, and heated remote mirrors.

Morooka USA rubber track carriers have hydrostatic transmissions and come with a one year, 1,000-hour warranty. Morooka's industry-leading dealer, parts and service network ensures coast-to-coast after-sales product support throughout North America. The new line of purpose-built machines gives utilities end-users a rubber track carrier dedicated to the unique work they do that they can count on wherever and whenever they need to do it.



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# Measure Expedites Problem Resolution for Electrical Utilities with New Drone Toolkit for Linemen

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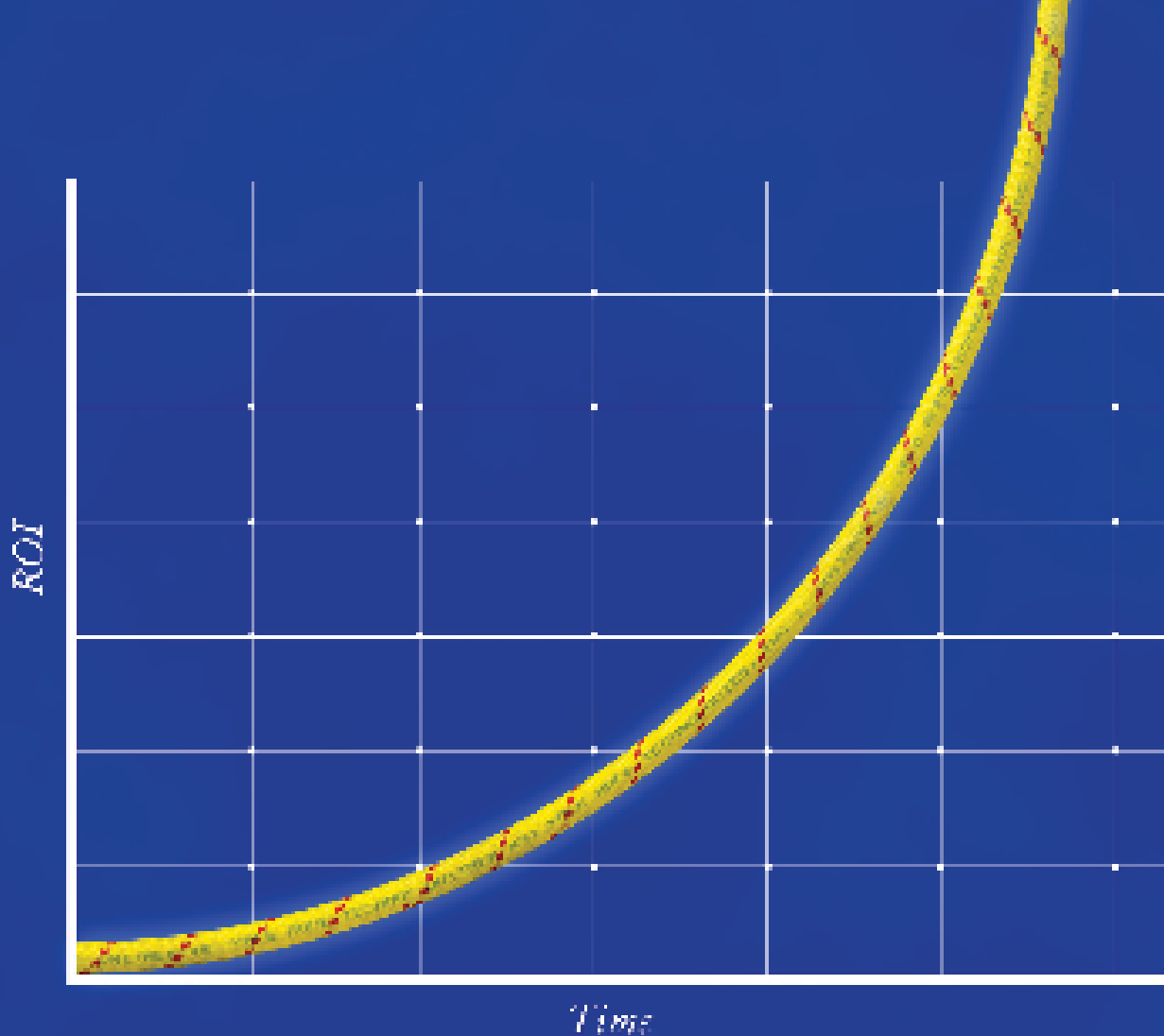
Measure, the largest U.S. provider of drone services to enterprise customers, today announced a new drone toolkit that enables electrical utilities to build a professional drone inspection program staffed by their own linemen. The package trains and equips linemen to quickly and safely identify structural defects and damage on transmission lines, towers and substations, making it possible to examine known or suspected trouble spots without the time, expense and risk of mobilizing a helicopter or physically climbing a pole or tower to perform an inspection.

The Utility Toolkit complements Measure's professional drone inspection services for critical infrastructure, including a robust new reporting suite with FedRAMP (Federal Risk and Authorization Management Program)-approved cloud storage allowing operations managers to access detailed, user-friendly inspection information on each asset through a secure online portal.

### Utility Toolkit

Developed by linemen for linemen, the toolkit facilitates the process of identifying high-priority defects ranging from damaged insulators, poles and conductors to broken ground wires, broken crossarms, missing aerial numbers, and downed trees. Detailed image capture allows linemen to zero in on problem areas and instantly pinpoint maintenance issues from a ground control flight app in the field.





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Toolkit components include:

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- Measure Ground Control™, a pre-installed flight control application that makes flying around infrastructure automated and repeatable
- Ongoing subscription-based support, including weekly reports on pilot and equipment activity to ensure safe flight procedures and proper maintenance of drone equipment
- An on-demand help desk, available either from a hotline or the service's web portal, to assist linemen with in-field troubleshooting, regulatory assistance and program management advice

Professional Pilot Inspections & Reporting

For electrical power generation facilities that prefer to outsource drone inspections to Measure's expert pilots, the company has developed easy-to-understand reporting tools that can be accessed through a secure online portal as well as in real time through a mobile app for emergency response situations.

With Measure's online portal, operations managers can review the inspection results on a FedRAMP-approved cloud storage system. A geographic layer provides a quick visual of inspected infrastructure, with details including images of the asset as well as longitude, latitude, inspection status, damage type and pilot notes available with a tap. The portal provides a comprehensive historical record of all inspections as well as a statistical view of the severity of defects and maintenance issues identified.

In instances when real-time reporting is required, such as during storm response activities, Measure's mobile app enables information sync between field inspections and emergency repair work. The real-time feedback assists utilities in managing the repair work efficiently and restoring power to their customers quickly. The system also

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The AES Corporation, one of the nation's leading power generation companies, and Measure have worked to develop these solutions over the past year. "AES has been able to identify potential equipment issues using Measure's drone aerial footage of our transmission assets," said Jessica Franklin, Transmission Operations, Indianapolis Power and Light, an AES subsidiary. "The use of drone technology allows us to quickly identify these issues without taking an outage. This benefit extends into the reduction of hazardous man-hours as well."

"Our drone programs make it possible for electrical utilities to reduce corrective maintenance costs, improve asset life, and expedite the process of restoring power after a natural disaster," said Harjeet Johal, Measure Vice President of Energy Infrastructure. "Whether you're using our Utility Toolkit to give linemen a valuable new tool in their truck or our expert drone pilots to do the work for you, we offer powerful new strategies for helping to keep the electrical grid up and running safely, efficiently and cost-effectively."

#### About Measure

Measure is the nation's leading Drone as a Service® company, providing turnkey solutions to acquire, process, and deliver actionable aerial data and media to enterprise customers. The company has pioneered drone applications in telecom, construction, energy, disaster response, live media coverage and other sectors, utilizing best-in-class drone technology, highly trained pilots and experienced data engineers to execute safe, legal and insured missions that help customers achieve new cost and operational efficiencies. For more information, visit [www.measure.com](http://www.measure.com) or follow the company at [www.facebook.com/MeasureUAS/](http://www.facebook.com/MeasureUAS/) and on Twitter at @droneasaservice.

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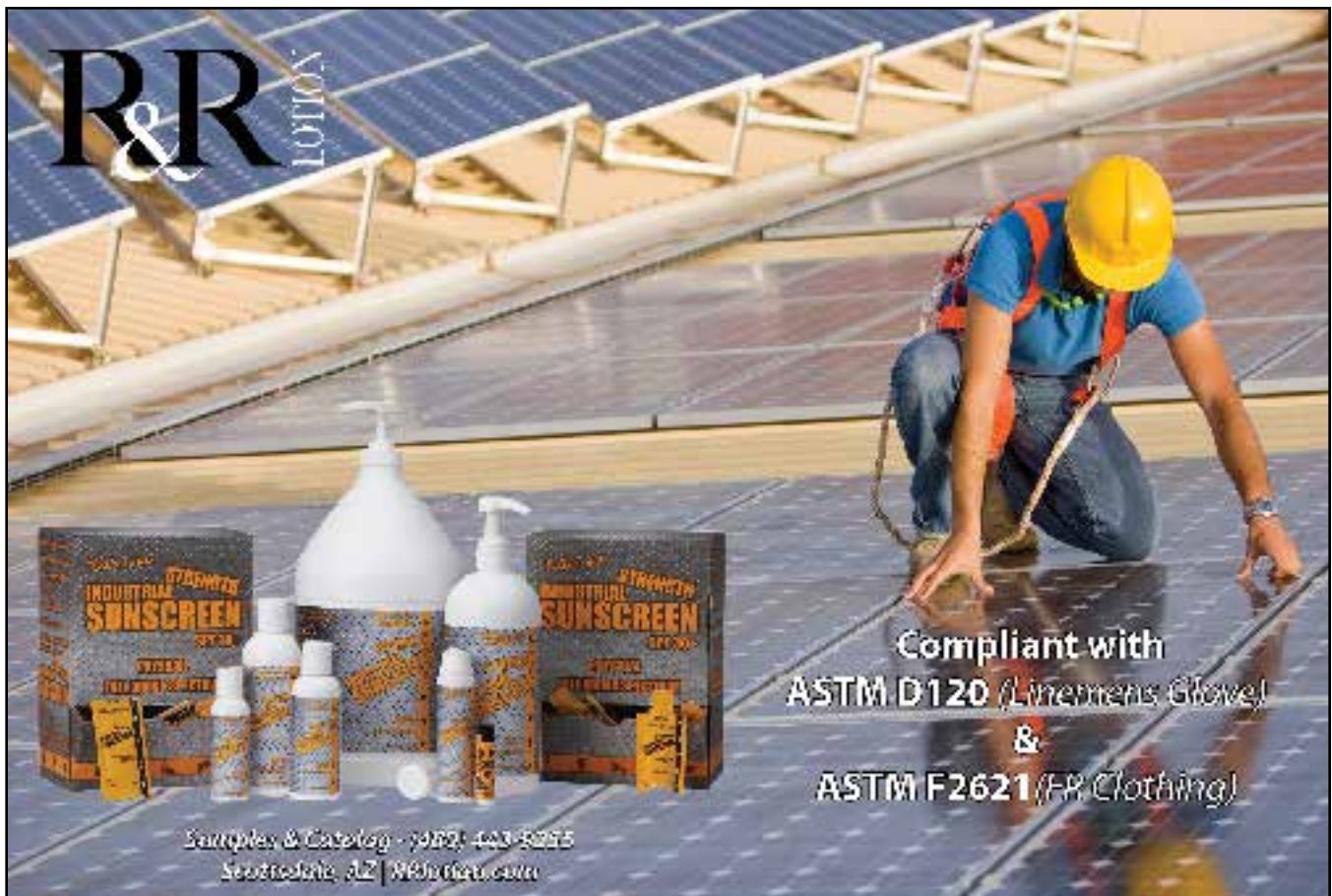
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# Snap-On Incorporated Partners with CJS Media For A Worthy Cause

## Snap-On Incorporated Donates Products to CJS Media for Raffle that Benefits Autism Awareness

Snap-On Incorporated has partnered with CJS Media to raise awareness for autism. Snap-On Incorporated will be donating tools and other products to CJS Media to raffle off at certain trade shows in 2018. Trade shows will be announced by CJS Media in the coming months. The money from each raffle will be donated to The Autism Society of America.

The Autism Society of America has been improving the lives of all affected by autism since 1965 and envisions a world where individuals and families living with autism are able to maximize their quality of life, are treated with the highest level of dignity and live in a society in which their talents and skills are appreciated and valued.

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CJS Media produces several magazines related to the construction, electrical, utility and safety industries. CJS Media concentrates on informing readers about what's new, what's better and what's needed to get their jobs done. CJS Media produces digital copies that are emailed to over 80,000 contractors nationwide.



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A Tethered Tool System for Applications Involving Work at Height

## LEAVE IT TO THE EXPERTS

Snap-on provides a drop prevention system like no other. We'll work with you to determine your drop prevention needs... including the tools, attachment points, lanyards, pouches, and holsters, that combine to create a turnkey solution that enables your workers to do just that...WORK.

## SAVE TIME AND MONEY

Engineered attachment points don't interfere with the functionality of the tools, and are more durable than simple "add-ons" that require frequent maintenance or replacement.

## BEAT THE STATISTICS

About 70% of drops happen during the exchange of the lanyard from one tool to another. The Snap-on Tools@Height system features independent tethering, which means each tool is attached to its own lanyard. Minimizing exchanges reduces the likelihood of drops and increases safety.

## MINIMIZE RISK

Independent tethering also allows the tool to be removed from and returned to its holster or pouch using just one hand. Safety is improved by allowing the user to maintain the critical "three points of contact" when working at height.

## RETAIN CONTROL

Our modular approach means you can configure the tools/holsters based on a user's personal preference, while providing a system that meets your safety standards.

See what the most comprehensive tool drop prevention solution in the industry can do for your team's safety and productivity by contacting:

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413-519-3380 | [John.R.Tremblay@snapon.com](mailto:John.R.Tremblay@snapon.com)

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- Manufacturing
- Transportation
- Energy
- Chemicals and more!

RegScan's unique online tools enable easy access to, and interpretations of, global environmental regulations and operational standards. Do your research and get your alerts through the RegScan One system, or have your content exported via web services to any online environmental management system. Users of the RegScan One system can create custom legal registers and audit protocols for more than 140 jurisdictions. Access the interface in nine languages:

- English
- Chinese
- French
- German
- Italian
- Japanese
- Malay
- Portuguese
- Spanish

Educational Resources

Webinars

RegScan understands that staying in compliance is critical. But it doesn't have to be complicated. That is why we host webinars several times throughout the year that help our clients tackle ever-evolving problems in the EHS industry. Prior topics covered included regulatory overviews, the Changing Role of the EHS Manager, and ISO 14001:2015. Such topics specifically address the newest industry standards while banishing compliance confusion, provide necessary tools to manage today's EHS challenges and reduce time and money spent on compliance activities.

### Tutorials

RegScan also produces a number of helpful videos for our users. They answer most commonly asked questions on using the RegScan One interface. You may wish to visit our Informational & Tutorial Videos Page prior to submitting a ticket to see if your question can be answered with the assistance of one of these videos.

### Quality Suite

RegScan has introduced audit protocols and checklists geared to quality management in healthcare. They cover the basic ISO 9001 and Quality Systems, Medical Devices (United States and the European Union), and Pharmaceuticals.

I-Comply Checklists have been added to provide Environmental, Health, Safety, Security for Data Centers and Offices. When you still have EH&S issues, but not the intensity of a manufacturing opera-

tion.  
Tracking Regulatory Change

### Strikethrough

Strikethrough allows you to effortlessly see the amendment history of a regulation by comparing the current regulation with an earlier or future version. Changes are easily identified by color-coding. Anything that has been added will appear in green, while anything that has been deleted will appear in red.

### My WatchList

My WatchList is a custom regulatory change management tool that allows you to monitor change at various levels of detail. It gives you quick access to only the information you need, while providing a clear record of what you have and haven't reviewed. My WatchList is the easiest way for a Web Services user to build a custom regulatory register, which RegScan will automatically export to your online environmental management system.

### LookOut Email Alert

By defining specific keywords or phrases, LookOut allows you receive daily Email alerts on State or Federal regulatory changes.

### RegScan Customer Support

As part of our ongoing commitment to improve the RegScan user experience, we use a ticketing system for customer support inquiries. This allows us to streamline requests and better serve you. Available 24/7, the ticketing system

allows you to immediately report an issue and track the support team's response to it. Every support request is assigned a unique ticket number. For your reference, we provide complete archives and history of all your support requests. A valid email address is required to submit a ticket.

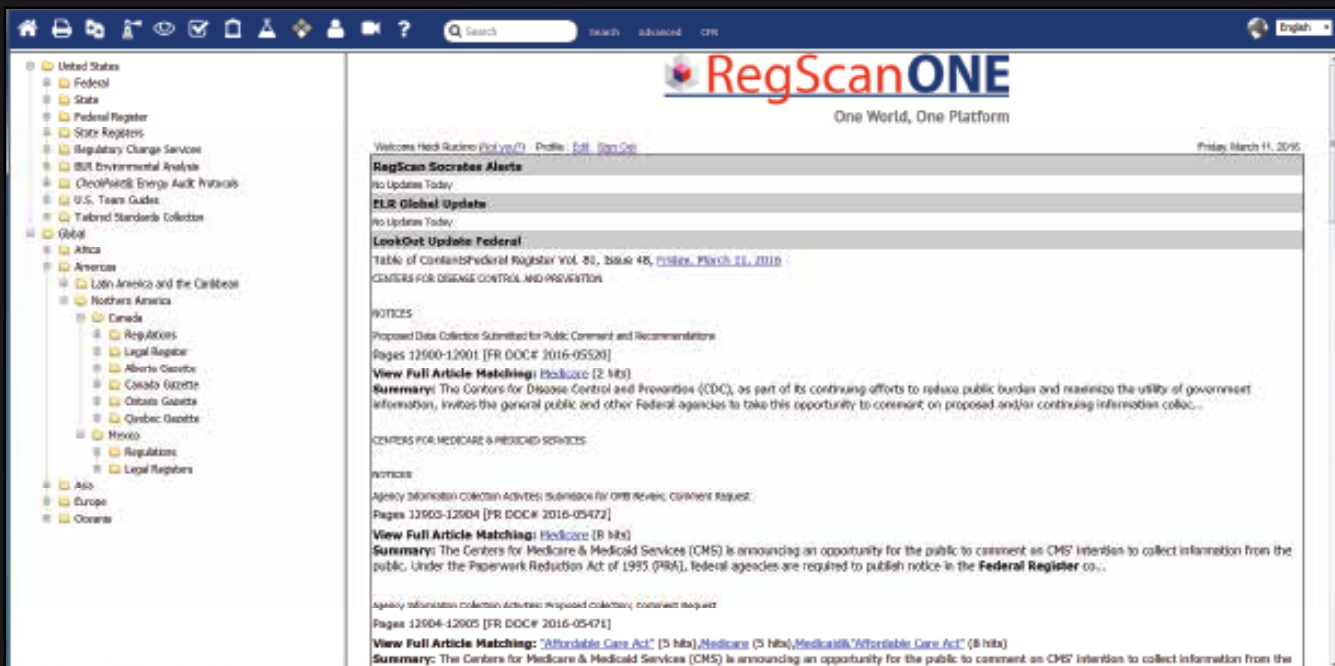
### Schedule a Demonstration

The RegScan team will gladly demonstrate any of our products or services for free. Our online demonstration sessions can accommodate up to 25 people, and we will schedule a meeting whenever it's convenient for you. During these interactive demonstrations, our experienced staff will go through whatever products or services interest you. You'll also have the opportunity to ask questions, and discuss licensing options that are tailored to your needs. If you decide to purchase, we can take of your training and support needs too. We frequently update our library of training videos, and we'll be happy to arrange online or in-person training sessions. Furthermore, our in-house technical support team is always available on weekdays (except for holidays) between 8 a.m. and 8 p.m. Eastern time, and online 24/7.

To learn more about RegScan, please call +1 570-323-1010, or Email [info@regscan.com](mailto:info@regscan.com).

Also find us on LinkedIn and follow us on Twitter @RegScanOne!

[www.regscan.com](http://www.regscan.com)





# Power Through Planning for Power Outages

Weather has proved to be unpredictable, especially this past year with the number of intense hurricanes and wildfires that have devastated the United States and surrounding areas. With the nation consuming more energy than ever before, weather poses a huge threat to the utility industry. Constant delivery of power is expected under any circumstance and power outages can be a great and costly inconvenience for utilities and inconvenient and frustrating for customers. It is important for the sector to be proactive with planning, rather than reactive when it comes to severe weather instances to ensure successful operations and processes.

Weather monitoring is much more than turning to a free mobile app to see what the weather conditions will be like over the next 10 days. Free apps may be able to predict when rain might fall, but when it comes to real-time, location-specific information such as lightning strikes, severe storms and high winds, they simply are not accurate or reliable. They are in no way

helpful in reducing or planning for outages.

Though technology is key for monitoring and predicting weather, it is also important for utilities to have a weather provider that can not only provide the tools, but have meteorologists who can counsel utilities and accurately relay information to make predictions. Technology allows experts to collect weather pattern and trend data. That data is then stored and analyzed by trained meteorologists and used to determine and predict future weather patterns and conditions, which will ultimately help produce a utility's weather plan.

There are several ways utilities can plan ahead for weather events and set themselves up for success when bad weather strikes.

## Analyze and plan resources

When a major weather-related event happens in the United States, it affects the entire nation. It is important to have crews on deck prepared to provide mutual



# i-Comply

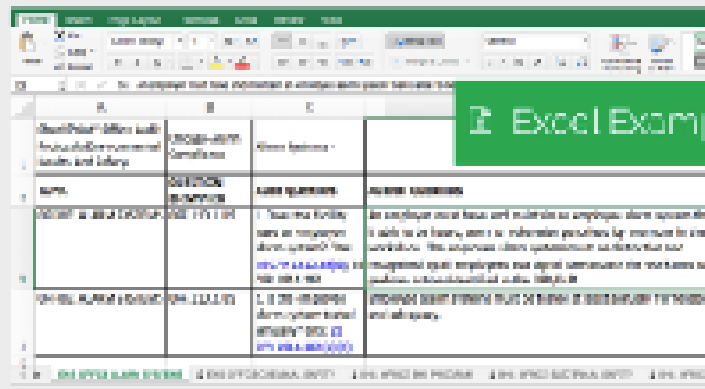
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Office & Data Centers

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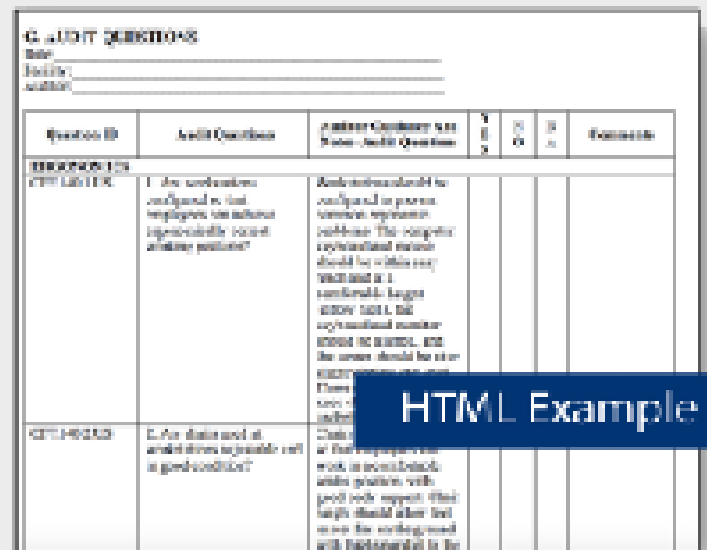
Too **many** sites? Too **hard** to coordinate? Too **costly** to send auditors?  
Having **difficulty comparing results** across the locations you have inspected?

If you said **yes** to any of these questions, how can you be sure that those sites are in compliance with your Global EHS compliance and risk programs?



**Excel Example**

Audit Questions	Audit Responses
1. Are all employees required to wear safety glasses and hard hats in the laboratory?	Yes, all employees are required to wear safety glasses and hard hats in the laboratory.
2. Are all employees required to wear safety glasses and hard hats in the laboratory?	Yes, all employees are required to wear safety glasses and hard hats in the laboratory.



**HTML Example**

Question ID	Audit Question	Audit Response	Y	N	NA	Comments
Q000001	1. Are all employees required to wear safety glasses and hard hats in the laboratory?	Yes, all employees are required to wear safety glasses and hard hats in the laboratory.				
Q000002	2. Are all employees required to wear safety glasses and hard hats in the laboratory?	Yes, all employees are required to wear safety glasses and hard hats in the laboratory.				

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aid across the country in case of an emergency. Having a weather provider guide the decision process of when and where extreme weather will hit can benefit the preplanning process for crew deployment. Planning 5-10 days in advance can help identify and locate resources and direct them toward the potential weather threat in a timely manner.

When a weather event hits and crews are relocated to help assist in another area, it is important to have someone monitoring weather for other potential threats. If crews are responding and providing mutual aid when extreme weather is likely to hit their home area in the next 5 days, having advanced warning can ensure they are able to move back to their location before the storm hits. In the case of Hurricanes Harvey, Irma and José, there were three hurricanes within a week of one another. Though José didn't impact the United States, at one point it was predicted to hit the northeast. Utilities in that area were concerned

because crews and equipment were providing mutual aid in the south and it would take three days to return. Though this doesn't happen all time, weather is volatile and it will happen again.

#### Prepare for various kinds of weather

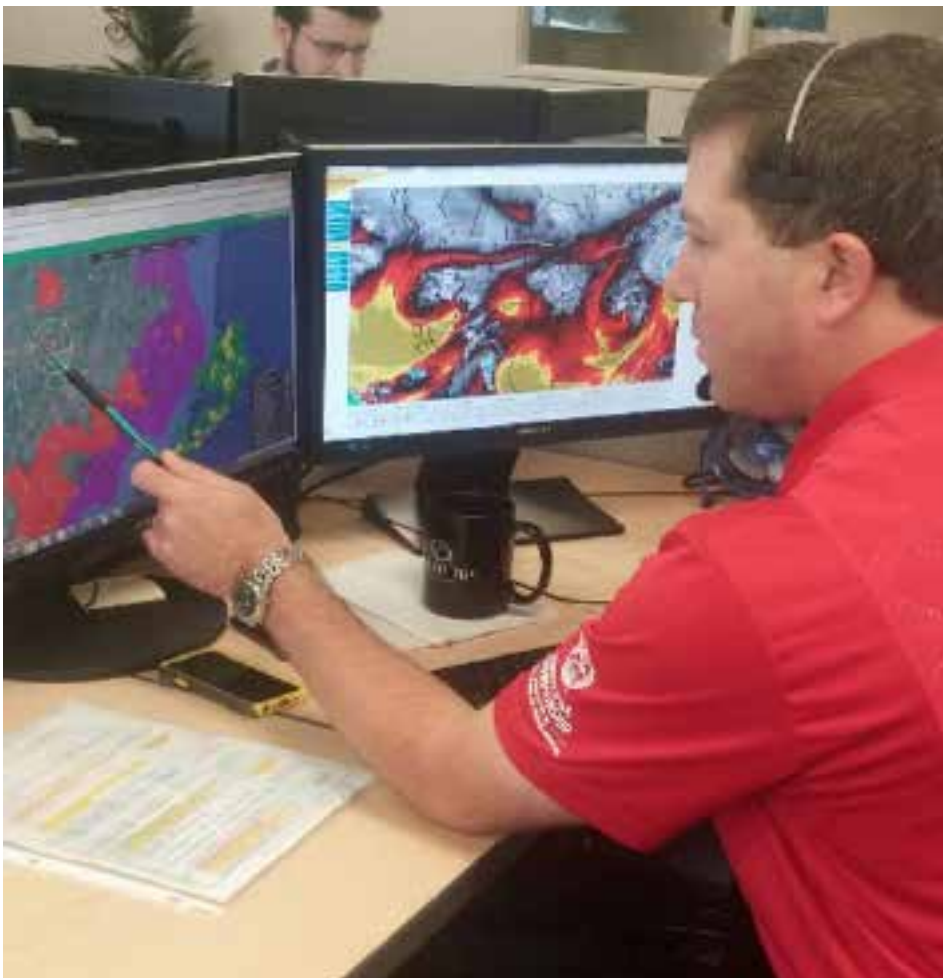
Different storms require different planning and monitoring. Sometimes planning means preparing for disaster response for unexpected storms with little to no warning. For example, it is much easier to plan ahead for hurricanes rather than tornados. Hurricanes can be seen days in advance, allowing for crews and resources to travel to the potential impacted area. However, meteorologists sometimes have only minutes of advanced planning for tornados. This makes it harder to relocate crews and resources in a timely manner before the storm hits.

The same is true for different seasons. Winter weather planning is equally important when considering the

affect weather conditions might have on utilities. It is important to be aware of different types of precipitation – rain, freezing rain, sleet, snow – and weather elements that will occur alongside of them that can impact the grid. Proactive weather planning a few days in advance will help utilities coordinate responses to ensure power outages are resolved quickly.

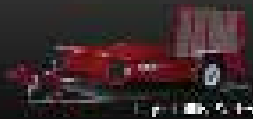
Be aware of weather patterns and trends

While weather is volatile, considering certain patterns that have developed in the past can help guide meteorologists to make predictions on what might happen in the fu-



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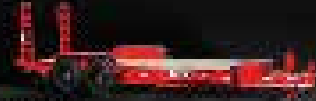
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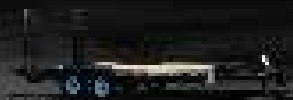
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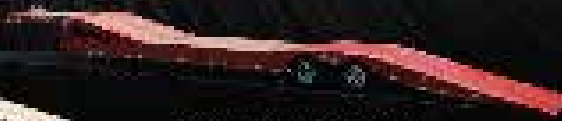
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ture. Past research shows that active weather patterns surface every three years. This year an active weather pattern surfaced and resulted in a number of major hurricanes and three major storms hitting within a week of each other. According to reoccurring patterns, these events will happen again and utilities need to be prepared for how extreme weather conditions might affect assets in the future.

In addition, the wildfires seen in California are events that are difficult to prepare for. Wildfires can be unpredictable and it is hard to analyze where and how they will move. However, looking at weather patterns that occurred in the past and analyzing weather patterns that enhance the severity of a wildfire can provide insight for the future. The advance research and knowledge can help set utilities up for success in the coming years.

Severe weather instances have increased six-fold over the last 20 years. By turning to years of insights and data, meteorologists have the ability to accurately predict weather. Analyzing specific weather patterns throughout seasons will highlight which areas are susceptible to certain weather conditions or areas that can expect damage. For example, if there is a drier season, wildfires are more likely to spark and high winds will be fuel for any fire. Experts can turn to past research to see if conditions are drier or wetter than last year and offer more robust solutions and apply insights to potential weather threats in any given region. Obtaining accurate weather predictions will help any utility in the long run.

#### Monitor Assets

Proactively identifying assets or infrastructure in need of inspection can tremendously reduce the amount of power outages. It is important to correlate weather risks to assets that have the potential to be affected by any weather condition. Utilizing weather information of past weather trends and patterns can help provide a risk assessment for infrastructure with the potential to undergo certain unexpected weather in a region. If there is heavy rainfall seen reoccurring in a region

where it might not have occurred 10 years prior, aging infrastructure most likely is not built to withstand these conditions, whereas newer infrastructure may not be affected.

Additionally, weather instances such as lightning can have either a direct impact or an indirect impact, making it important to prepare for both instances and consider what that means for infrastructure. A direct impact will most likely lead to immediate power outages but an indirect lightning strike can have a delayed outage and it can ultimately take hours or days for the damage to cause power failure. Identifying at-risk infrastructure and assets in advance can prevent power outages and equipment has the possibility to be identified and repaired before it fails.

#### Take a holistic approach

The United States is consuming more energy than ever before. With the nation so reliant on utilities to deliver consistent energy, power outages can be a great and costly inconvenience. The frequency of major outages has increased six-fold in the past 20 years and utilities need to be proactive in planning ahead for severe weather impacts rather than being reactive when they occur.

Having a real-time, location-specific weather provider with access to a certified and degreed meteorologist can help utilities understand weather and the potential impacts it will have on assets and resources, which can inform its operational plan. It can also provide accurate information to schedule and deploy resources in a timely manner. Investing in a trusted weather partner allows utilities to have assistance in decision making and weather monitoring to ease stress when extreme weather strikes.

Covering all of your bases is crucial in the weather planning game. It can save time, money and valuable resources. In an industry where reliability is key, it is important to put an operations plan in place so you can prevent outages or restore lost power as fast as possible.

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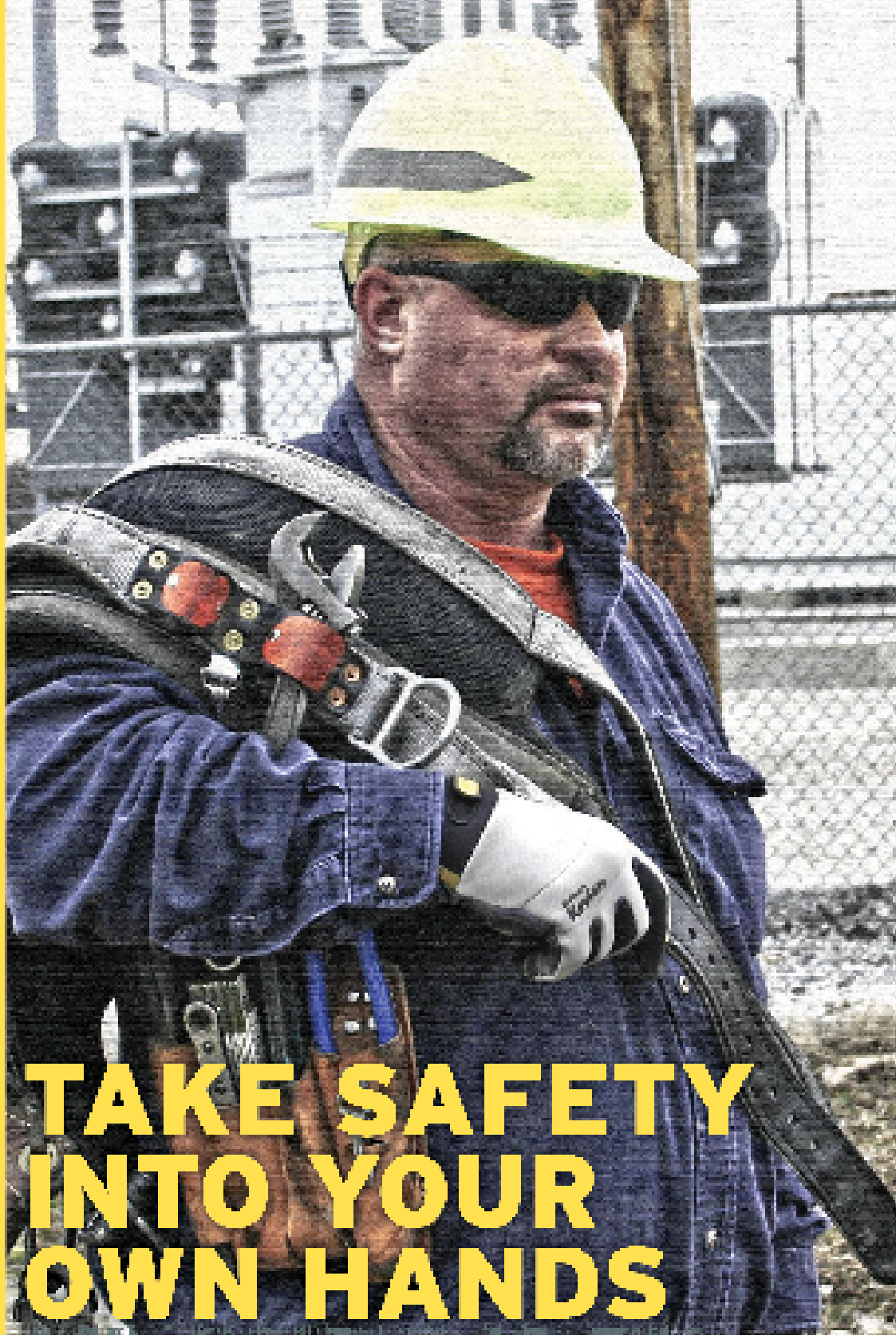
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Terex Utilities will debut completely redesigned Terex® A330 and A650 auger drills during the International Construction & Utility Equipment Expo (ICUEE). “Innovation is at the foundation of all continuous improvements Terex makes to its equipment,” said Joe Caywood, Director of Marketing.

Enhancements to the Terex auger drills control systems and the transition to a hydrastatic drive transmission allow for easier operation and productivity. Additionally, remote diagnostics supports ease of troubleshooting.

“The A330 and A650 also feature radio remote controls — a first in auger drill operation,” Caywood added. The new operating system allows the truck, unit controller, and unit engine to talk to each other, which supports the application of radio remote controls. The advantage for the operator is improved productivity, comfort, and visual reference.

The enhanced auger drills have many features that are automated, including auto brake release, inner-Kelly retract stop, inner-Kelly slack stop, home position, return to center and dig depth. The ‘return to center’ allows the operator to return the auger to the drill position used previously. “This keeps the hole at the proper diameter and the proper vertical position throughout the dig, regardless of how many times the operator needs to clean

the dirt from the auger tool,” said Gary Rice, Terex South Regional Sales Manager.

“Optional telematics are also available that when used in conjunction with a customer supplied cellular or internet connection, can broadcast data from the drill and truck, such as GPS location and other desired information,” said Caywood.

Customers can order their auger drill with a command post and joystick controls, with new design that allows the display monitor to be mounted there or used remotely with the radio controls. Other enhancements improve maintenance access or reduce potential issues, such as hydraulic leak, by eliminating almost 40 percent of the current hydraulic fittings and hoses through the new control system.

“Not only are we delivering great solutions and real innovation to our customers but we also retain the solid performance, reliability and rugged durability that Terex drills are known for,” said Rice.

Visitors to ICUEE can see demonstrations of the A330 and A650 at the Terex Utilities Booth L316 during the biennial show in Louisville, Ky., Oct. 3-5.

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## GSSI Announces the Release of the UtilityScanO HS

GSSI, the world's leading manufacturer of ground penetrating radar (GPR) equipment, announces the release of the UtilityScanO HS, the newest product in its popular UtilityScan GPR system line. The UtilityScan line is the industry standard for efficiently identifying and marking the location and depth of subsurface utilities, including gas, sewer, and communication lines. The newly released UtilityScan HS model incorporates the 350 HS antenna, a state-of-the-art digital antenna designed with features GSSI's patented HyperStacking™ technology. HyperStacking technology greatly improves the depth and data resolution performance over traditional RTS technologies.

HyperStacking is a revolutionary real-time sampling (RTS) technique patented by GSSI, which greatly improves the receive performance of a GPR system while maintaining the measurement speed and radiated emission limits. By incorporating the 350 HS antenna, the UtilityScan HS deliver higher data resolution, better RF noise immunity, and better depth penetration than traditional GPR antennas. The 350 HS can reach depths of up to 12 meters (40 feet). The UtilityScan HS also provides advanced signal processing tools such as stacking, signal floor tracking and background removal.

[www.geophysical.com](http://www.geophysical.com) •



## Sherman + Reilly Launches In-Stock Equipment Viewing



Sherman + Reilly, Inc., a Textron Inc. company, a leading manufacturer of power line stringing and installation equipment, launched a new online site allowing customers to browse ready-to-ship equipment.

With the click of a button, the company's experienced sales team will be ready to assist with the final purchase and answer any product specific questions, providing customers fast access to the equipment they need to complete the job.

"We are excited to be expanding our digital footprint to provide customers the information they are looking for," said Jim Zima, General Manager, Sherman + Reilly. "We continue to garner feedback to improve our customer experience and this is the latest example of that commitment."

Sherman + Reilly equipment is designed for underground and aerial transmission, and distribution of electrical power and communications systems. The company will update instock equipment, providing data on the products available.

[www.shermanreilly.com](http://www.shermanreilly.com) •

## Klein Tools Introduces the 9" Journeyman™ Heavy-Duty Diagonal-Cutting Pliers

Klein Tools, for professionals since 1857, introduces the 9" Journeyman™ Heavy-Duty Diagonal-Cutting Pliers with extra-long cutting blades. The thicker forging ensures increased durability while the extra-long cutting blades provide 57 percent more cutting surface\* for greater cutting ability and more efficiency on the job.

9" Journeyman™ Heavy-Duty Diagonal-Cutting Pliers (Cat. No. J2000-59)

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- Angled blade design for easier access to cut screws and bolts
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- Exclusive handle tempering absorbs the "snap" when cutting wire
- Dual-material Journeyman™ handles provide better grip and added comfort

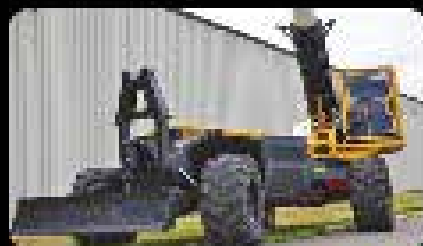


"At Klein Tools, we are dedicated to innovation and quality, which means continually re-imagining our existing products," says Austin Minor, associate product manager at Klein Tools. "We listened to our customers and have designed these all-new Heavy-Duty Diagonal-Cutting Pliers to last longer and perform more cuts over time than standard diagonal-cutters."

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Terex	27	<a href="http://www.terex.com">www.terex.com</a>
The Power Gripz	IBC	<a href="http://www.thepowergripz.com">www.thepowergripz.com</a>
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