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North American Clean Energy Features Systems With Intelligence Thermal Imaging

As wind power generation increases, how will systems maintenance keep up?

Mississauga, ON – Systems With Intelligence takes their thermal imaging expertise to new heights. With the increase in wind power generation, so follows the requirement to maintain the systems, which is challenging enough, only now the equipment is 100m in the air and consistently moving.

Full article available [here](#) on page 48 in volume 16, issue 4 of North American Clean Energy.

“With our years of expertise in remote substation maintenance, wind farms are a similar challenge” said Angelo Rizzo, CEO, “with the added movement of the machinery, thermal imaging is the flexible and reliable solution to reliable and cost-effective wind farm maintenance on a global scale.”

Winds of Change

The Industrial Internet of Things (IIoT) machine learning and cloud computing are already in use for asset monitoring and predictive maintenance at some utilities. This change and proven reliable use case can only improve the speed of adoption for wind farms to reduce costs and increase safety as the demand grows for wind power generation.

No Loss of Productivity

With these new technological changes, the doors open for wind farms to adopt thermal imaging for monitoring the wind turbine. Thermal imaging will help the operators to:

- Provide measurements during changing load conditions
- Avoid concerns about weather interfering with operations
- Give direct data feed to operators, SCADA, and asset management systems
- Single sensor can monitor several pieces of equipment

Thermal Imaging Means Flexibility

Any wind farm operator can perform remote inspections 24 hours a day, seven days a week with thermal imaging. Just a few short years ago, this was impossible. Maintenance crews would have to go tower by tower completing their inspections which would take days to weeks to complete.

This method is safer, more reliable, and less costly than previous methods.

Quick Facts

- Systems With Intelligence is a Canadian company, founded in 2009
- Systems With Intelligence Touchless™ monitoring systems are installed in over 100 utilities worldwide

- Systems With Intelligence senior management team has over 100 years of collective experience in utility asset monitoring and communications technologies

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About Systems With Intelligence

Systems With Intelligence Inc. is a global provider of Touchless™ monitoring solutions for electric utility applications. SWI systems collect and analyze the data that allows utilities to increase safety and reliability while reducing operating costs. Coupling thermal monitoring and visual imaging technology with advanced analytic algorithms, Systems With Intelligence solutions automate remote site monitoring.

Systems With Intelligence products are engineered to operate in the harshest environments, withstand high levels of electromagnetic interference, static discharge and voltage surges found in industrial applications to ensure uninterrupted operation. Providing a monitoring system that operates reliably and connects seamlessly allows customers to remain focussed on their operations.

The Systems With Intelligence management and technical teams are comprised of professionals with extensive experience in advanced technology for mission critical applications in harsh environments. With domain expertise in substation and industrial automation, communications and utility operations our team is uniquely positioned to deliver effective and intelligent monitoring solutions.

For more information, visit the company's official website at www.SystemsWithIntelligence.com.