

GE Power Enhances PPE Monitoring with Integration Wizards Computer Vision and Benchmark Solutions

The Challenge

As a global leader in power generation equipment and services, GE Power is committed to maintaining the highest standards of workplace safety across its vast network of facilities. However, the company faced challenges in effectively monitoring and addressing personal protective equipment (PPE) usage among its workforce.

“Developing something like this took us over half a year,” said Ronald Wissenburg, Senior Director Quality and EHS IT at GE Power.

“It’s very time consuming. That’s when we began to look around on the market, and funny enough, at a Benchmark event I attended last year, they announced they were partnering up with Integration Wizards.”

The Solution

GE Power turned to the Integration Wizards Computer Vision solution, which is integrated with Benchmark’s Concern Reporting and Incident Management platforms. This innovative technology uses on-site cameras to identify and capture safety triggers, such as forklift speeding, and automatically logs the key details within the Benchmark system.

The company began by testing the monitoring equipment in locations in Hungary and Saudi Arabia, with the aim of expanding the deployment over time.



How It Works

The Integration Wizards Computer Vision technology uses artificial intelligence in the form of a convolutional neuro network (CNN) to create a virtual map that analyses the total operational area and configures alarms for specified hazards, using live CCTV camera feeds from onsite video monitoring systems.

When the Integration Wizards technology identifies those occurrences from the live camera footage, the details are automatically submitted via API into the Benchmark Gensuite platform. A concern reporting form is then created and notifications are sent out to key team members so that personnel can take immediate action whenever non-compliances are flagged.

GE Power is leveraging Benchmark Gensuite’s pre-built dashboards to provide safety leaders with a comprehensive overview of all safety concerns logged via various methods, including not only through computer vision but also through desktop and mobile devices, to gain unprecedented visibility into near misses and identify improvement areas more efficiently and systematically.

The Results

The implementation of Integration Wizards Computer Vision has yielded immediate results for GE Power. In the first week of using the system, the company saw a significant increase in the number of PPE concerns raised, from 50 incidents.

“ By communicating and using this in the reporting, and in talking about it in meetings, the cases started to go down,” Wissenburg said.

The increased visibility and proactive identification of safety issues have enabled GE Power to address PPE compliance more effectively, leading to improved safety outcomes for its workforce.

The Future

GE Power's successful deployment of Integration Wizards Computer Vision, integrated with Benchmark's solutions, has laid the foundation for the company to expand its use of advanced safety monitoring technologies.

“ In the first week, when we turned on the system, 50 PPE concerns were raised,” Wissenburg said. That's when we have a successful proof of concept.

As GE Power continues to leverage the power of computer vision and Benchmark's comprehensive platform, the company is poised to further enhance its safety culture, protect its workforce, and maintain its position as a leader in the power generation industry.

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