

AI-DRIVEN WILDFIRE CAMERAS

- Leverages AI to locate ignitions and support **Risk Assessment**
- Improves **Situational Awareness** for PGE and public safety partners
- **Reduces wildfire risk** by enabling faster response times
- During the Camp Creek Fire, the camera system **alerted first responders 4+ hours earlier** compared to traditional technology

AI-driven wildfire cameras in Mt. Hood National Forest

Case study: Leveraging artificial intelligence to improve wildfire response with Pano AI

PGE's groundbreaking partnership with Pano on ignition detection technology exemplifies how we collaborate to address critical challenges. In response to the increasing wildfire risks posed by climate change, and in partnership with Incubatenergy Labs (IEL) as part of the Electric Power Research Institute (EPRI), PGE has deployed Pano's advanced AI-powered camera systems across the area we serve, following a successful demonstration through the 2021 cohort of EPRI's Incubatenergy Labs.

This technology has modernized PGE's and our local firefighting partners' ability to quickly detect and respond to fires, demonstrating tangible benefits in public safety and infrastructure protection. In August

2023, the Pano AI fire detection camera network played an important role supporting first responders during a lightning-caused wildfire in the Bull Run Watershed, a critical water source for over one million people in the greater Portland metro area. At night, the cameras pinpointed the ignition location of what would become the Camp Creek Fire, and provided high-definition, live-streaming video of the fire to PGE and key emergency response agencies. The cameras showed the fire area's fuel type, behavior, and rate-of-spread, and gave the local fire incident management team more than four hours of advanced planning time than if the fire had been reported at daybreak by traditional detection methods. Since deploying Pano AI cameras across our system,

the technology's application has expanded to several use cases beyond what was originally intended, including improved situational awareness during winter storm response and providing first responders with data to inform planning evacuation routes.

The success of this initiative underscores the value of embracing external partnerships and cutting-edge technologies to tackle evolving industry challenges. As PGE navigates the energy transition, Strategic Innovation creates an environment where all PGE team members are encouraged to actively participate in innovation efforts, seek out collaborative opportunities, and contribute to shaping a safe, affordable, resilient, and sustainable energy future for our customers.