Case Studies: Safe City project using Simpnify to handle fire detection and control self-extinguishing at EV charging station

Enhanced Fire Safety at EV Charging Stations

Our advanced system enhances fire detection and control at EV charging stations by integrating multiple IT systems and 3D engine technologies. It ensures interoperability across IoT, Security, Communications, Fire Safety, and Energy Management domains, consolidating critical operations into a unified platform. This integration improves situational awareness, enables swift emergency response, and ensures efficient management of fire incidents, safeguarding urban infrastructure and public safety.

"HOW DO WE HELP THEM?"

- **Energy Management**: We help optimize energy use with real-time monitoring of solar panels, energy storage, and power sources, cutting costs and boosting sustainability.

- **Environmental Monitoring**: Monitor water use, weather, and temperature to conserve resources and maintain ideal conditions for operations.

- **Smart Security**: Enhance safety with CCTV and electronic fencing, covering all areas and responding swiftly to threats.

- **EV Charging Stations**: Ensure reliable operation with real-time monitoring, optimizing power use and promptly addressing issues to keep everything running smoothly.
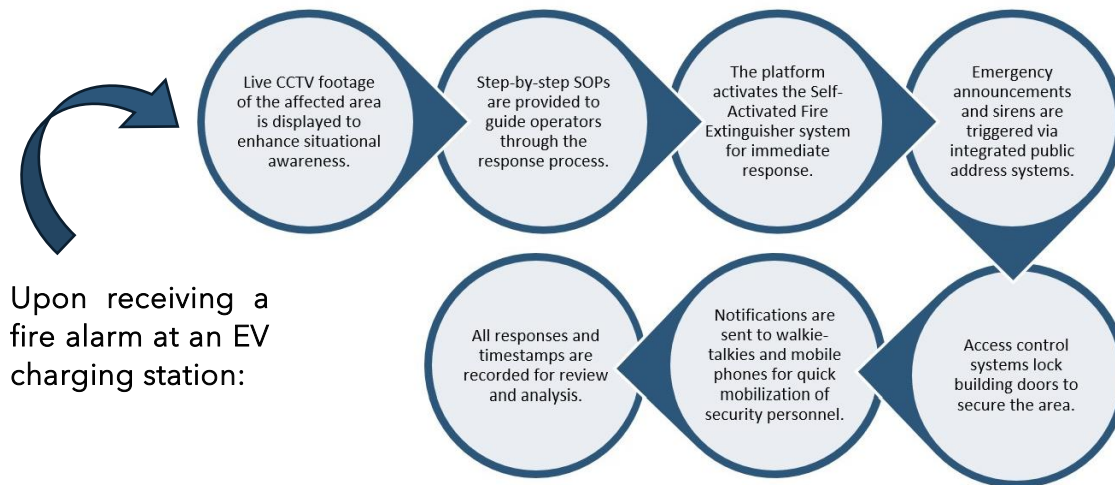
HOW IT WORKS?

Simpnify Platform:

A web-based user interface offers a consolidated view of critical events and alarms, enabling operators to swiftly assess and respond to incidents following standard operating procedures (SOPs).
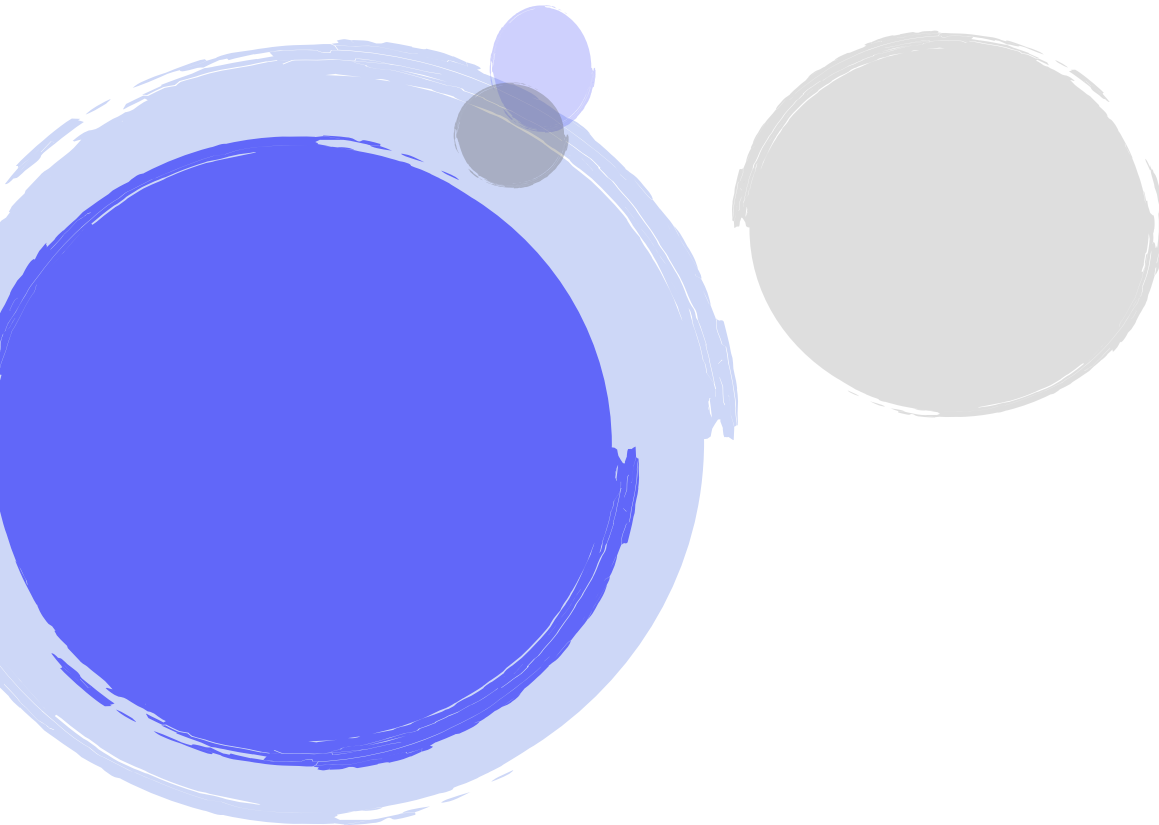

Integration of Systems and Devices:

The platform seamlessly integrates various systems, devices, and analytics for handling critical events.

Upon receiving a fire alarm at an EV charging station:

- Live CCTV footage of the affected area is displayed to enhance situational awareness.
- Step-by-step SOPs are provided to guide operators through the response process.
- The platform activates the Self-Activated Fire Extinguisher system for immediate response.
- Emergency announcements and sirens are triggered via integrated public address systems.
- Access control systems lock building doors to secure the area.
- Notifications are sent to walkie-talkies and mobile phones for quick mobilization of security personnel.
- All responses and timestamps are recorded for review and analysis.

Communication Integration:

Emergency communication devices such as public announcement systems, radios, and walkie talkie are seamlessly integrated with the platform. This integration automates notifications to relevant personnel, facilitating coordinated response efforts during emergencies at EV charging stations.

Simpnify

🏢 Singapore (HQ)

📍 55 Toh Guan Road East, #06-01Uni-Tech Centre, Singapore, 608601
☎ +65 6680 9321

🏢 Malaysia

📍 No 2, Jalan Laman Setia 7/6, Setia Business Park 81550 Gelang Patah, Johor, Malaysia
☎ +607 5950 387

✉ enquiry@simpnify.com
🖥 https://www.simpnify.com

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