



SAFEGRID®

Intelligent Grid System®

LOCATE. PREDICT. PREVENT.

Safegrid provides a simplified and scalable fault management solution for electric transmission and distribution grids.

Fault location within +/- 100 meter accuracy on a map in just seconds.
Predictive maintenance based on 24/7/365 partial discharge detection.

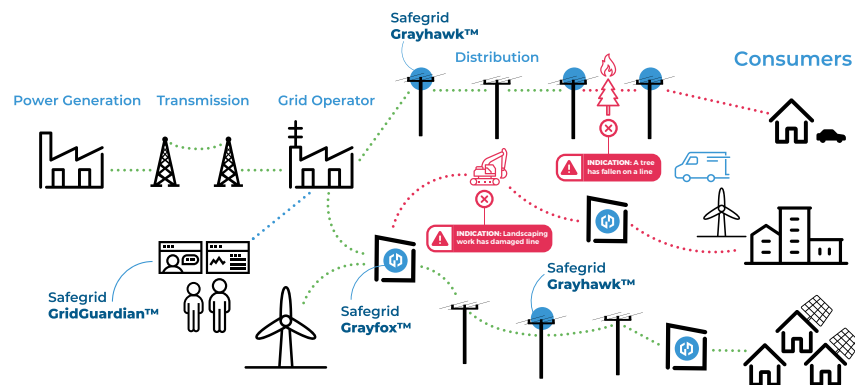
Safegrid's Intelligent Grid System®

Safegrid's **Intelligent System®** (IGS) employs instant-on sensors and cloud-based analytics for capturing and analyzing grid events. It utilizes sensors for overhead lines and underground cables, accurately locating events. It uses transient detection coupled with GPS time synchronization based triangulation. With proprietary algorithms, the system classifies grid events by type and severity, enabling customers to identify faults, anticipate future issues, and prevent them.

Powerful Grid Monitoring

Our solutions give utilities and grid operators complete 24/7 visibility into the grid. When the fault locations are known, the crews can navigate and fix faults instantly, decreasing costs and downtime. The resulting fast FLIRS and minimized **SAIDI** and **SAIFI** improve customer satisfaction and operational economics.

Safegrid hardware is designed for fast installation and deployment. The devices operate on a fully standalone basis without time-consuming integrations. Yet, they feature powerful APIs for connecting them with other systems at any time, when needed.



Locate faults with 100 m accuracy.

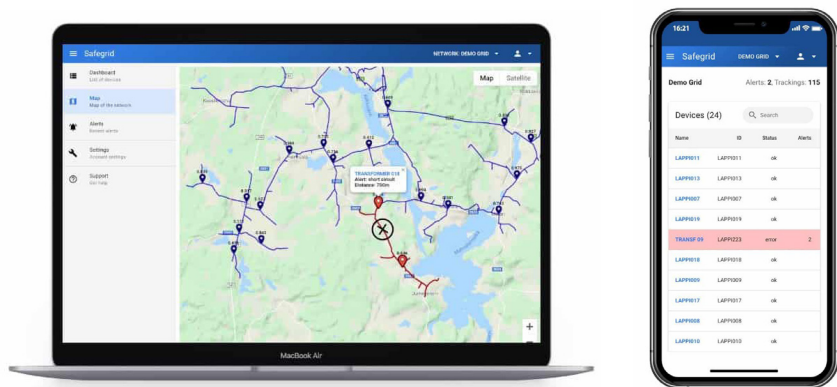


Safegrid's **Intelligent Grid System®** evolves together with your grid. As the grid becomes more and more dynamic due to Integration of Renewable Energy, Distributed Energy Resources (DERs) and Microgrids, it will be impossible for the traditional hardware-based detection methods to follow when old fault types gain new characteristics.

Safegrid's **Intelligent Grid System®** is capable of evolving when the grid becomes more dynamic. By learning the new characteristics of the phenomena in the grid, Safegrid's **IGS** ensures the investment will provide return still in the future without labor intensive hardware updates. Safegrid's **Intelligent Grid System®** is future-proof.








Safegrid GridGuardian® - Cloud-Based Monitoring System

GridGuardian® – the brain of our technology - is the essential core part of our **Intelligent Grid System®**. It provides instant actionable alerts about common grid faults in real-time.



Safegrid's **Intelligent System®** (IGS) employs instant-on sensors and cloud-based analytics for capturing and analyzing grid events. It utilizes sensors for overhead lines and underground cables, accurately locating events using GPS time synchronization.

Key GridGuardian® features:

-  Secure communication with the cloud server
-  Visual GIS-based real-time monitoring
-  Browser and mobile user interfaces
-  Fast and reliable
-  Instant SMS alerts with location information
-  Fully customisable reports
-  Easy integration with dashboard systems



FULL VISIBILITY INTO THE GRID

Safegrid's inexpensive hardware and cloud-based software help utilities and operators achieve full visibility throughout their grids.



PRECISE LOCATION OF FAULTS

By knowing fault locations, work crews can get to work faster, decreasing both costs and downtime. Fast FLISR and minimized **SAIDI** and **SAIFI** improve customer satisfaction and economics.



DECREASED DAMAGE RISK

Fast detection of electric arcs and other dangerous faults helps utilities both prevent fires and defend themselves against groundless lawsuits.



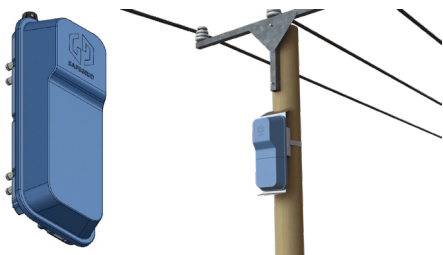
ENABLING PREDICTIVE MAINTENANCE

The ability to monitor grid components and conditions enables effective predictive maintenance measures which improve the reliability and service life of the components.

Grayhawk®

For Overhead Lines

Grayhawk® is an overhead line sensor that utilizes wireless current and high-frequency transient measurements, making it non-intrusive and non-contact.



Non-intrusive and non-contact:

Grayhawk® measures the magnetic field created by the overhead line without a connection to the conductor. Also for covered conductors.

Fast deployment:

Grayhawk® can be deployed in 30 minutes or less without the need for any alterations or system shutdowns, ensuring that your operations can continue uninterrupted. No configuration needed.

Sensitive and accurate:

Grayhawk® has highly accurate and reliable high-frequency measuring technology up to 1 MHz. Grayhawk® can sense even minor grid anomalies with maximum accuracy and speed.

Wireless communication:

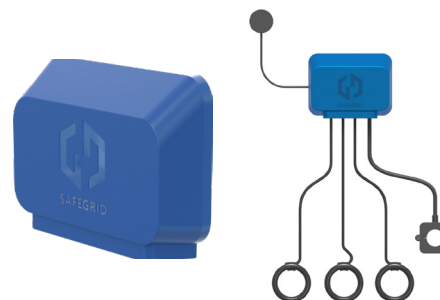
Grayhawk® built-in wireless multi-provider cellular communication.



Grayfox®

For Underground Cables

Grayfox® is a cable sensor that employs rogowski-coils for non-intrusive current and high-frequency transient measurements



Non-intrusive:

Grayfox® employs rogowski-coils for non-intrusive current and high-frequency transient measurements for screened cables.

Fast deployment:

Grayfox® is used for cable monitoring. It can be deployed in 30 minutes or less without the need for any alterations or system shutdowns, ensuring that your operations can continue uninterrupted. No configuration needed.

Sensitive and accurate:

Grayfox® has highly accurate and reliable high-frequency measuring technology up to 1 Mhz. Grayfox® can sense even minor grid anomalies with maximum accuracy and speed.

Wireless communication:

Grayfox® integrated wireless multi-provider cellular communication.





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About Safegrid

Safegrid provides a simplified and scalable fault management solution for electric transmission and distribution grids. We are enabling the electric transition worldwide and elevating electrical grid performance through unrivaled visibility, speed, and accuracy.

All Safegrid products ultimately improve your entire grid performance.

Read more:

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