



APPLICATION: *Solar Facilities*

Limit Damage to Solar Facilities with Rapid Fire Detection

The FIREBird system can quickly detect and report on fires starting within, or near, solar facilities; usually within 2 minutes. Each FIREBird device contains thermal sensors are specifically designed to detect grass fires and wildfires at the point of ignition, and can also detect electrical equipment fires including transformer fires. Special algorithms and selectable thermal detection zones help avoid false alarms at times of peak solar panel reflections.

FIREBird deployment at solar facilities helps to:

- Notify staff and first responders immediately.
- Reduce the likelihood of small fires going unnoticed.
- Increase public and employee safety.
- Reduce property damage and liabilities.
- Reduce impact on power generation.



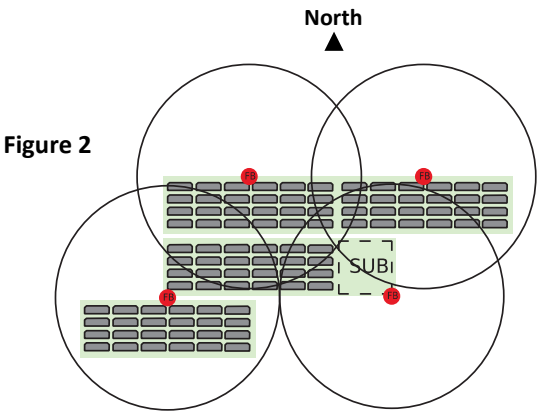
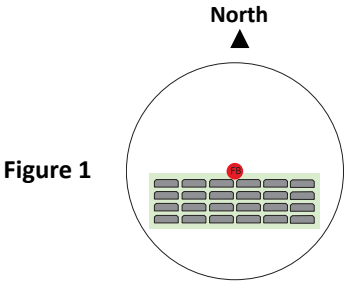
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Placement Options Provide Flexible Detection Zones

Placing FIREBird devices along or within property boundaries can detect internal events including fires that start in solar panels, on the ground below, or in substation equipment. The FIREBird Zone of detection using the recommended placement of a single FIREBird for a smaller solar facility is indicated in **Figure 1**.

FIREBird devices placed along or near property boundaries extend fire detection to the surrounding area which is particularly important if the solar facility is adjacent to undeveloped land at high risk for wildfires. Larger, more complex solar facilities may require more than one FIREBird. **Figure 2** shows example placement of multiple units for a larger facility which includes a substation and nearby land.

Note: Each of the FIREBird’s thermal or visual camera detection zones can be selectively disabled for privacy purposes or to avoid views that experience excessive solar panel reflections.



Immediate Response with FIREBird



Ignites



Detects



Reports

When it happens you need to know.

Immediate detection = better outcomes.

Reporting includes: location, images, and actual wind info.¹

¹ When equipped with optional weather station. Reports wind speed, wind direction, ambient temperature and humidity.

² Typical response time for detection and reporting of 3 ft x 3 ft fires at a 400 foot distance and 5 ft x 5 ft fires at a 900 foot distance based on testing conducted at the San Bernardino Regional Emergency Training Center June 2023.



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