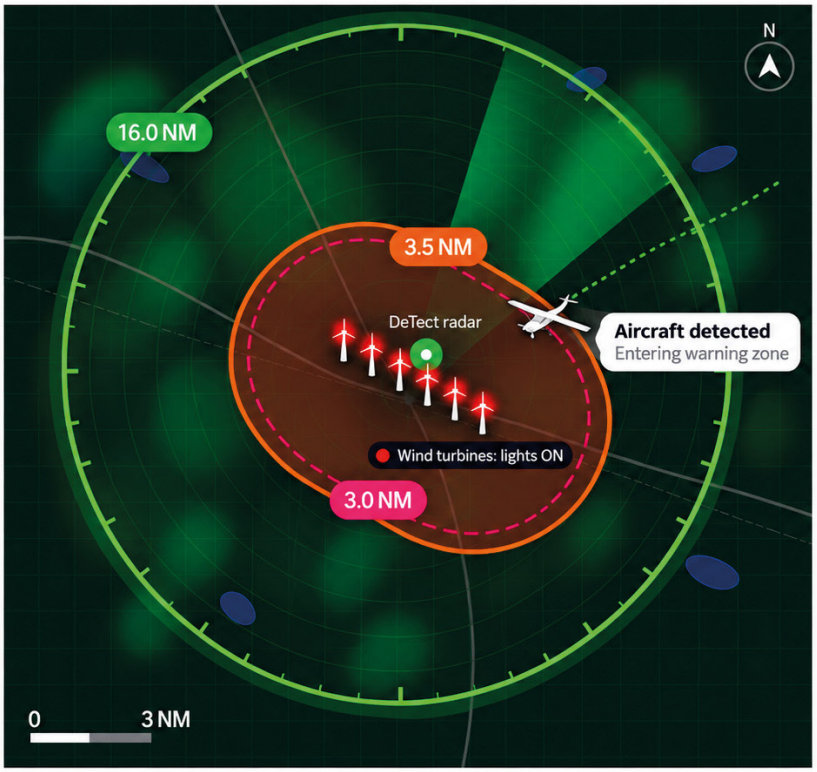
Aircraft Detection Lighting Systems (ADLS)

Darker Skies
Proven Compliance
Lower Operating Costs

Light when you need it, night when you don't.
Intelligent radar control for aviation obstruction lighting.

DeTect™ Intelligent Sensors
Est. 2003



KEY

- **Radar tracking perimeter** 16.0 NM
- **DeTect warning zone** 3.5 NM
- **FAA required perimeter** 3.0 NM
- **Obstructions (wind turbines)** Obstruction lights
- **Aircraft and radar track** Live position

HOW IT WORKS

1. **Detect** Radar detects aircraft out to 16 NM, day and night.
2. **Identify** Aircraft breaches the 3.5 NM warning zone around the site.
3. **Act** Turn lights on, and off when aircraft leaves the zone.

DeTect enables automatic obstruction lighting control through proven HARRIER™ radar systems designed for wind farms, transmission lines and communication towers. Operators keep lights off until an aircraft approaches, reducing light pollution, supporting permitting and community relations, and maintaining aviation safety in all conditions.

Why choose DeTect:

- Automatic lighting activation with aircraft detection out to 16 NM
- FAA assessed and compliant with NAVCAN, DGAC, CASA and EU requirements
- Most widely deployed and proven ADLS on the market

Our Value

Detect

RADAR · ADBS · SCADA INTEGRATION

Identify

UAS · COMMERCIAL AIRCRAFT · MILITARY AIRCRAFT

Act

LIGHTS OFF · VESSEL TRACKING · MIGRATION TRACKING

https://detect-inc.com

Offices: Canada, Poland, South Korea, Taiwan, UK, USA

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Powerful Features for Obstruction Lighting Control

Long Range Detection	**Aircraft detection out to 16 NM, exceeding FAA minimum range by over 400%**
360° Surveillance	**Continuous radar coverage all the way around turbines, lines and towers**
Automatic Activation	**Obstruction lights switch on only when aircraft approach the site**
Customizable Zones	**Multiple alert zones and activation perimeters set for each site**
Universal Compatability	**Works with all turbines, lighting systems, control systems and SCADA**
Continuous Recording	**Detections, flight tracks and lighting events logged to an SQL database**
Reliability	**High MTBF solid-state radar backed by a full parts and labor warranty**

Innovative Technology

DeTect pioneered multi-function radar technology, which was the first production model in the world, capable of detecting and tracking small airborne targets such as drones, birds and bats. Since 2003, DeTect's team of technologists and biologists has continued to advance radar systems used across aviation, wind energy and environmental monitoring, including the HARRIER™ ADLS, developed in response to the Dark Sky initiative to reduce light pollution.

By switching obstruction lights on only when aircraft are near, DeTect radar systems help wind energy developers and infrastructure owners reduce light pollution, lower operating costs and support safer skies, with installations across the US, Canada, Europe and Asia. With the MERLIN™ processor add on, the same sensor can also provide bird and drone surveillance.

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